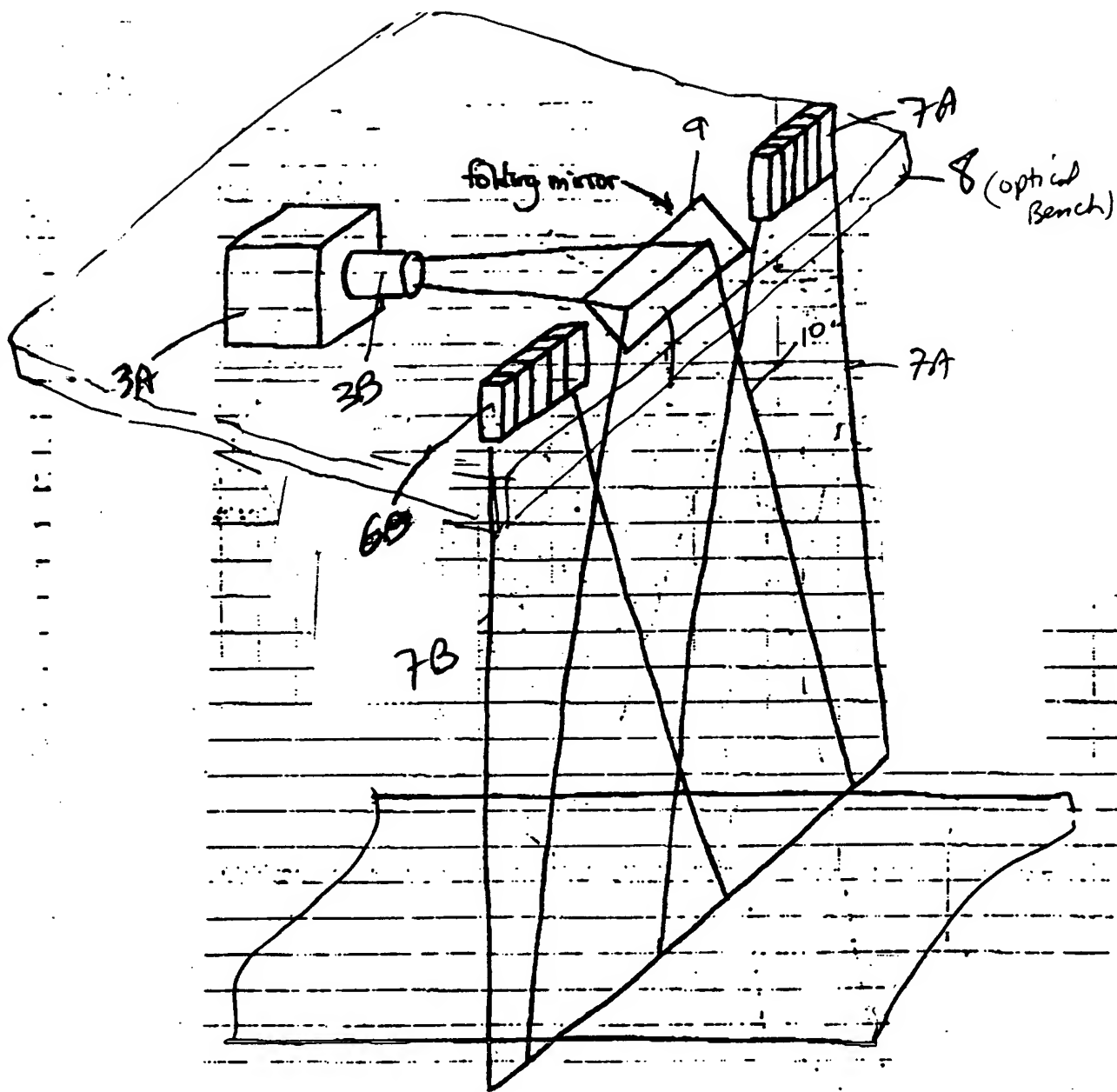


FIG 1A

2/137

208270-15065001



1A

FIG. 1B1

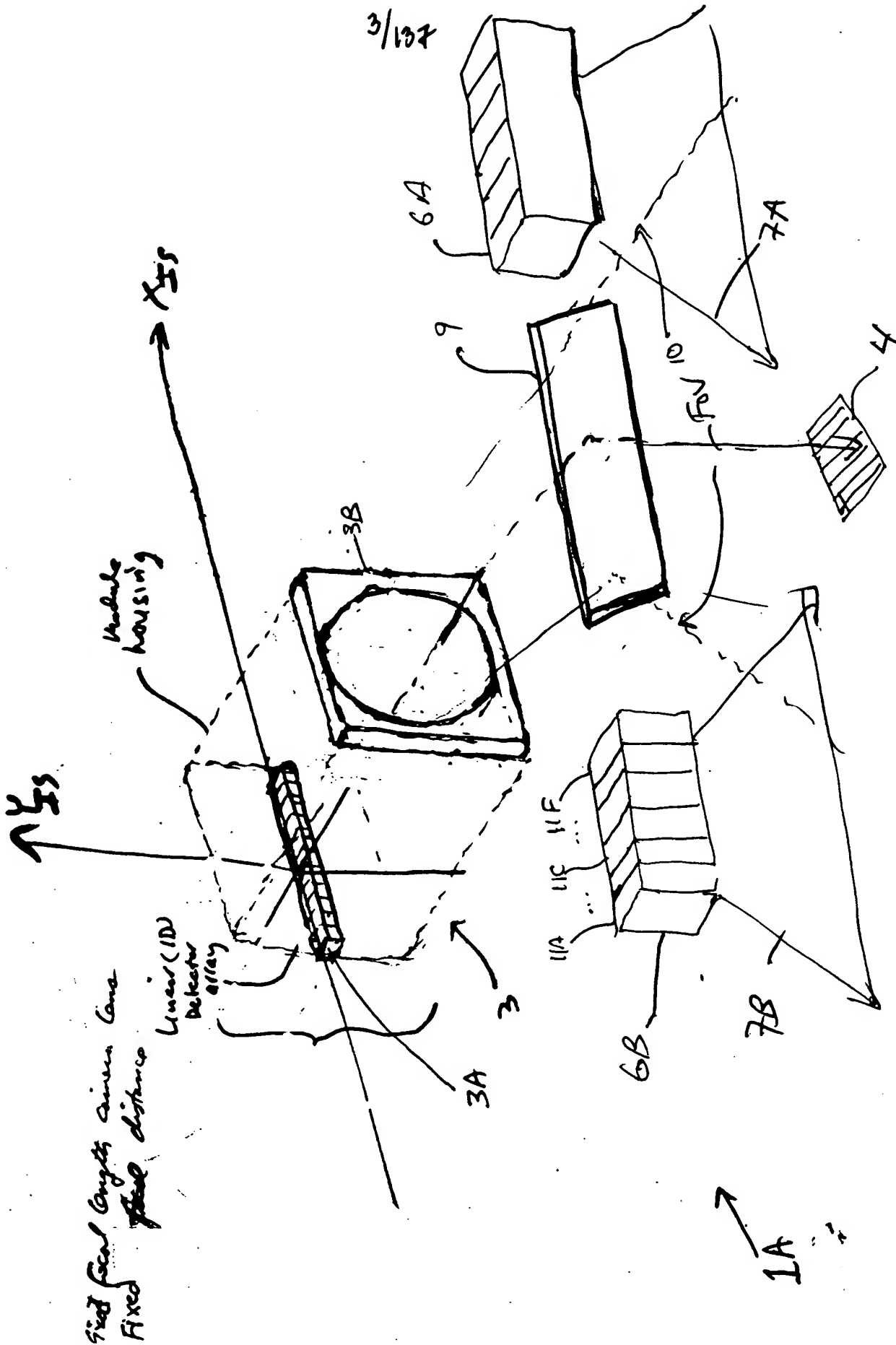


FIG. 1B2

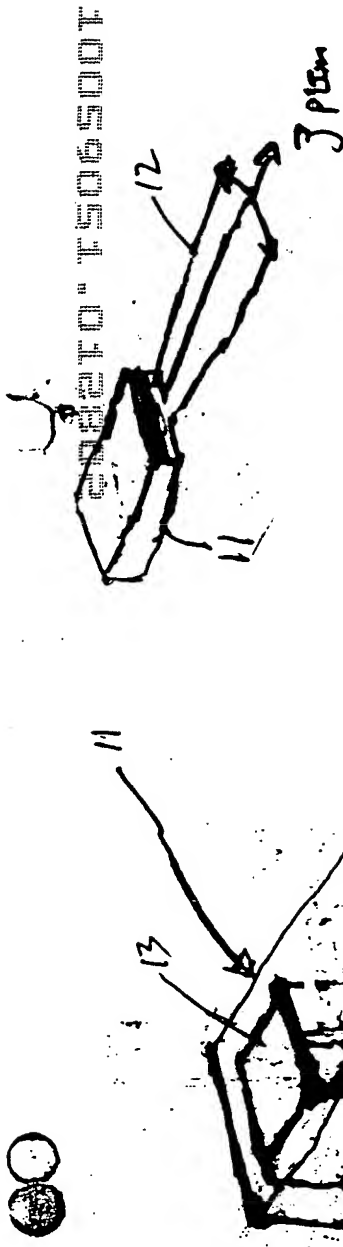


FIG. 1C

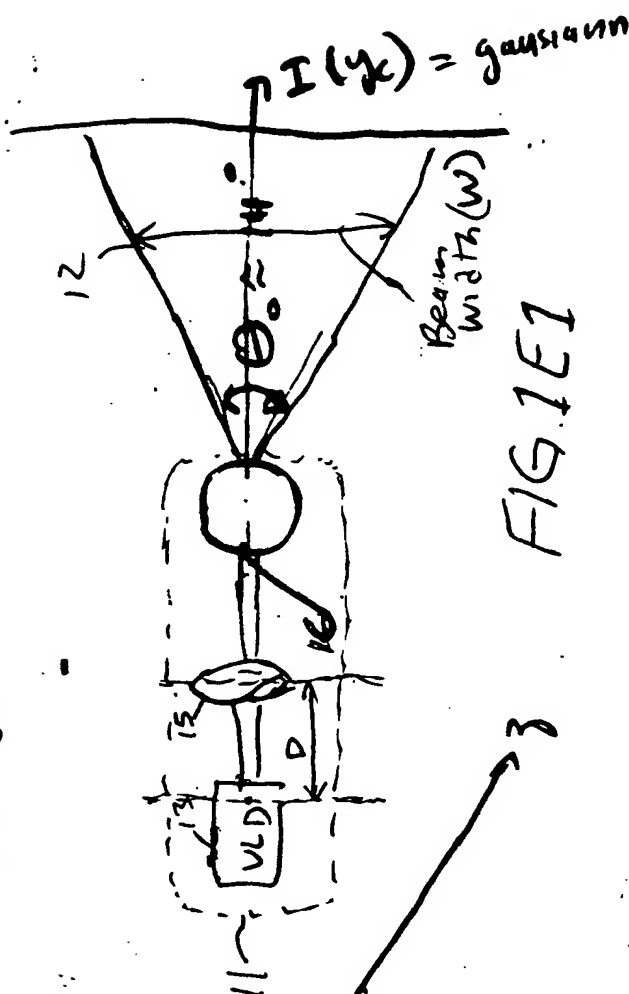


FIG. 1E1

4/137

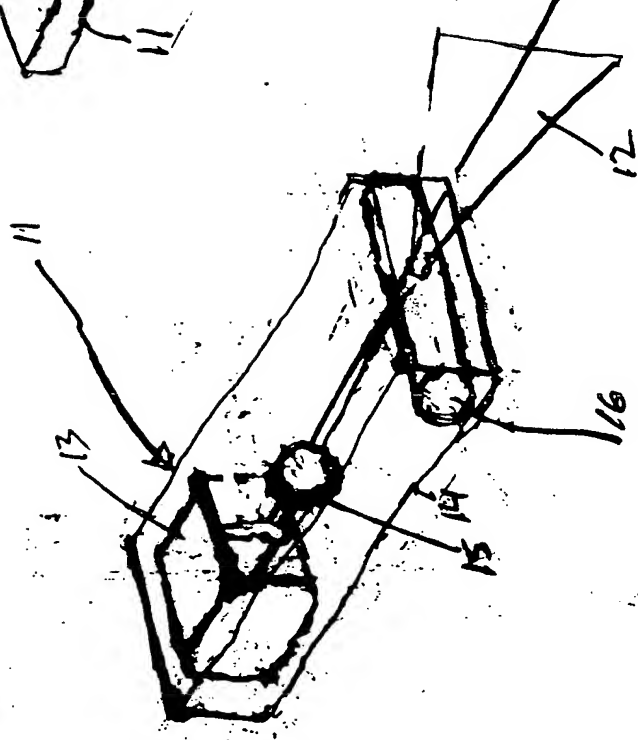


FIG. 1D

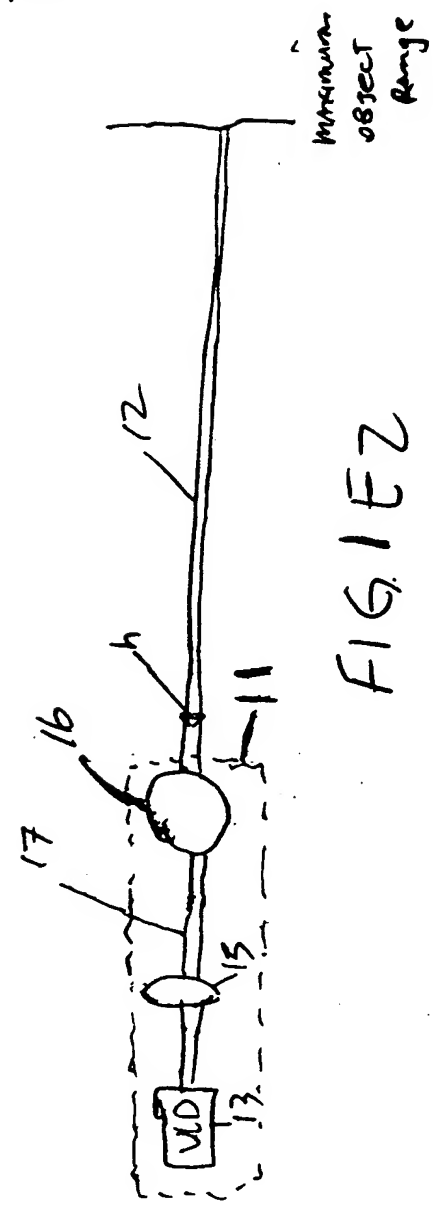


FIG. 1E2

Maximum
object
Range

6/137

208210 "TS06500T

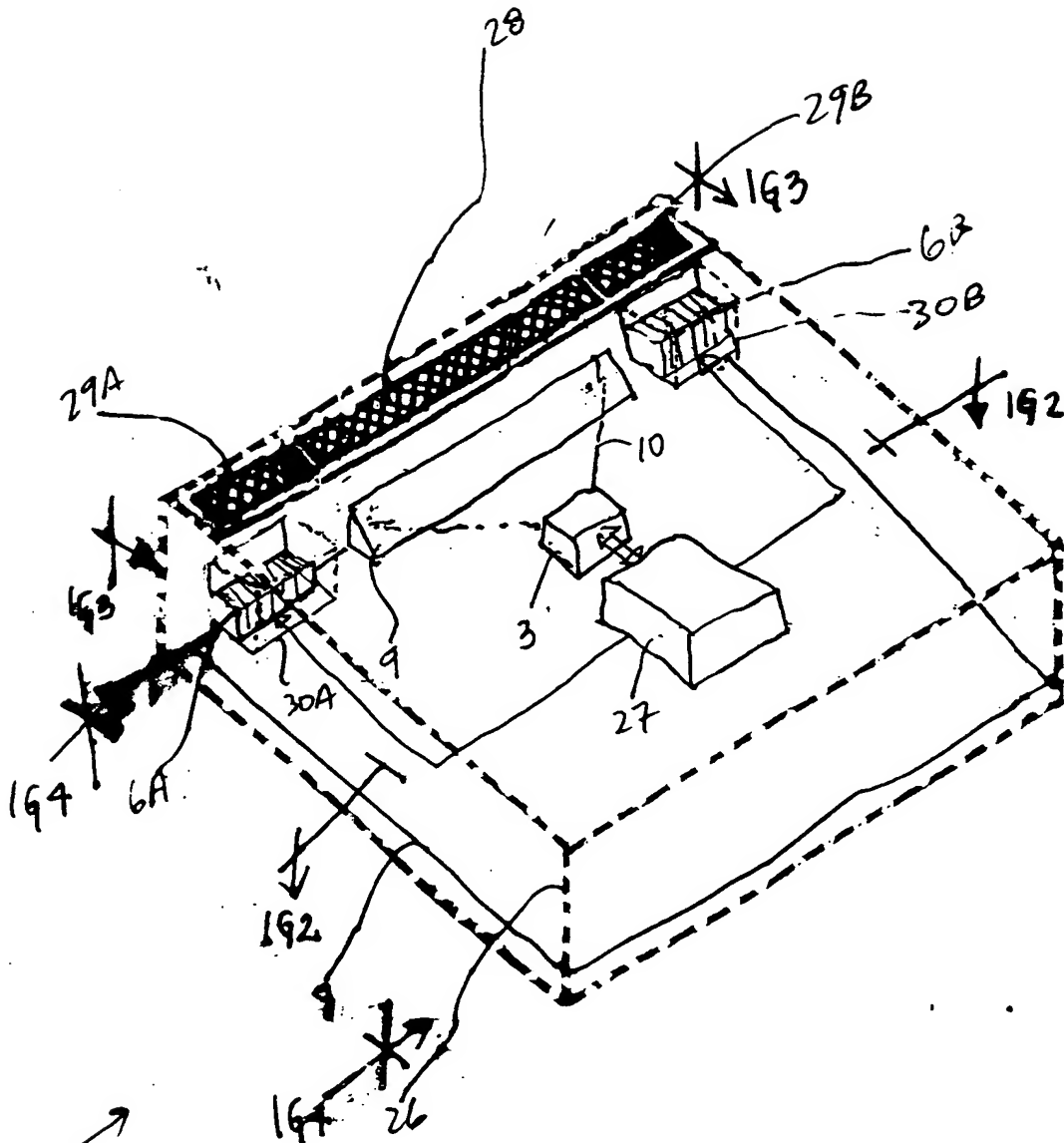


FIG 1G1

25

7/187

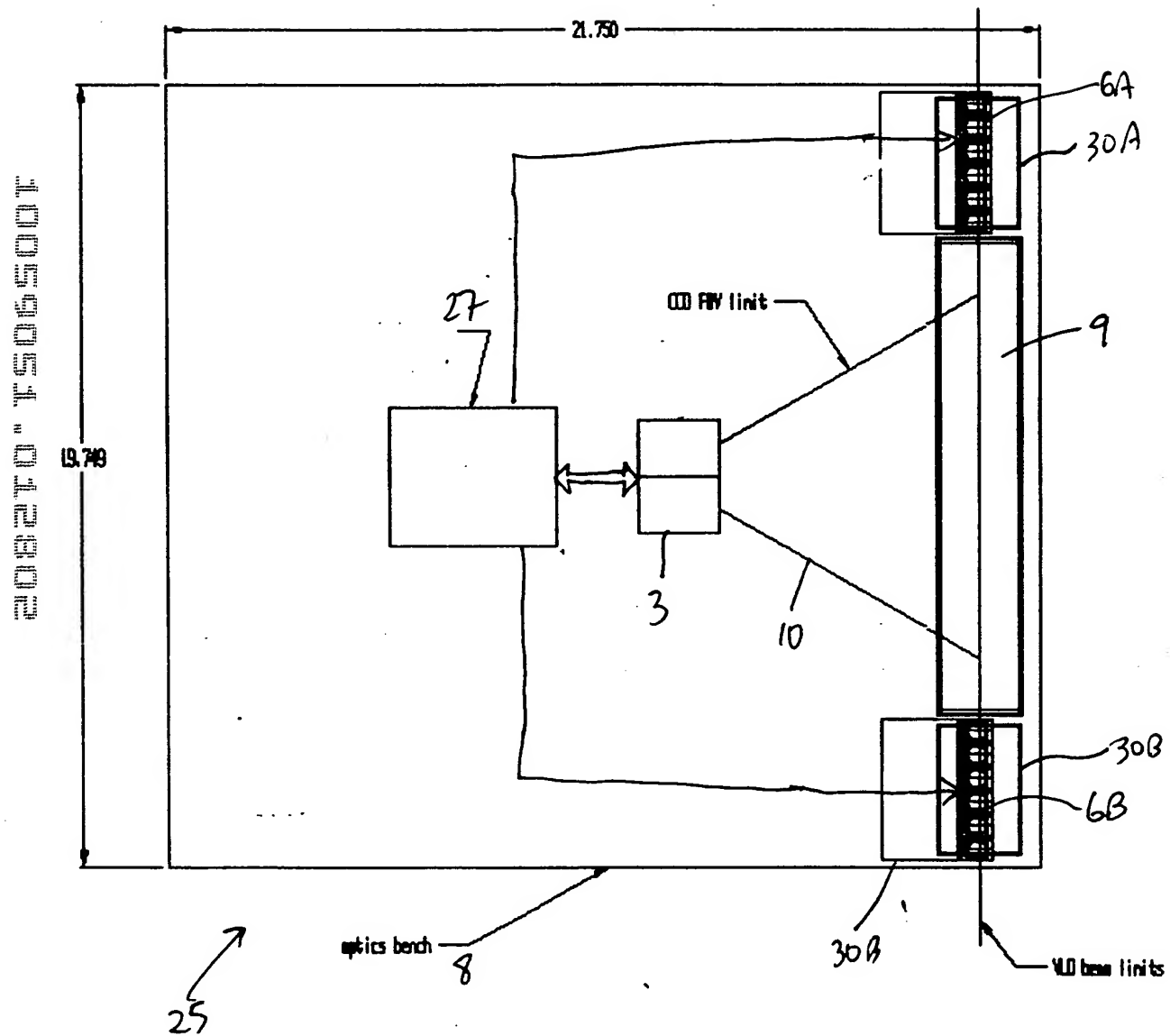


FIG. 142

8/137

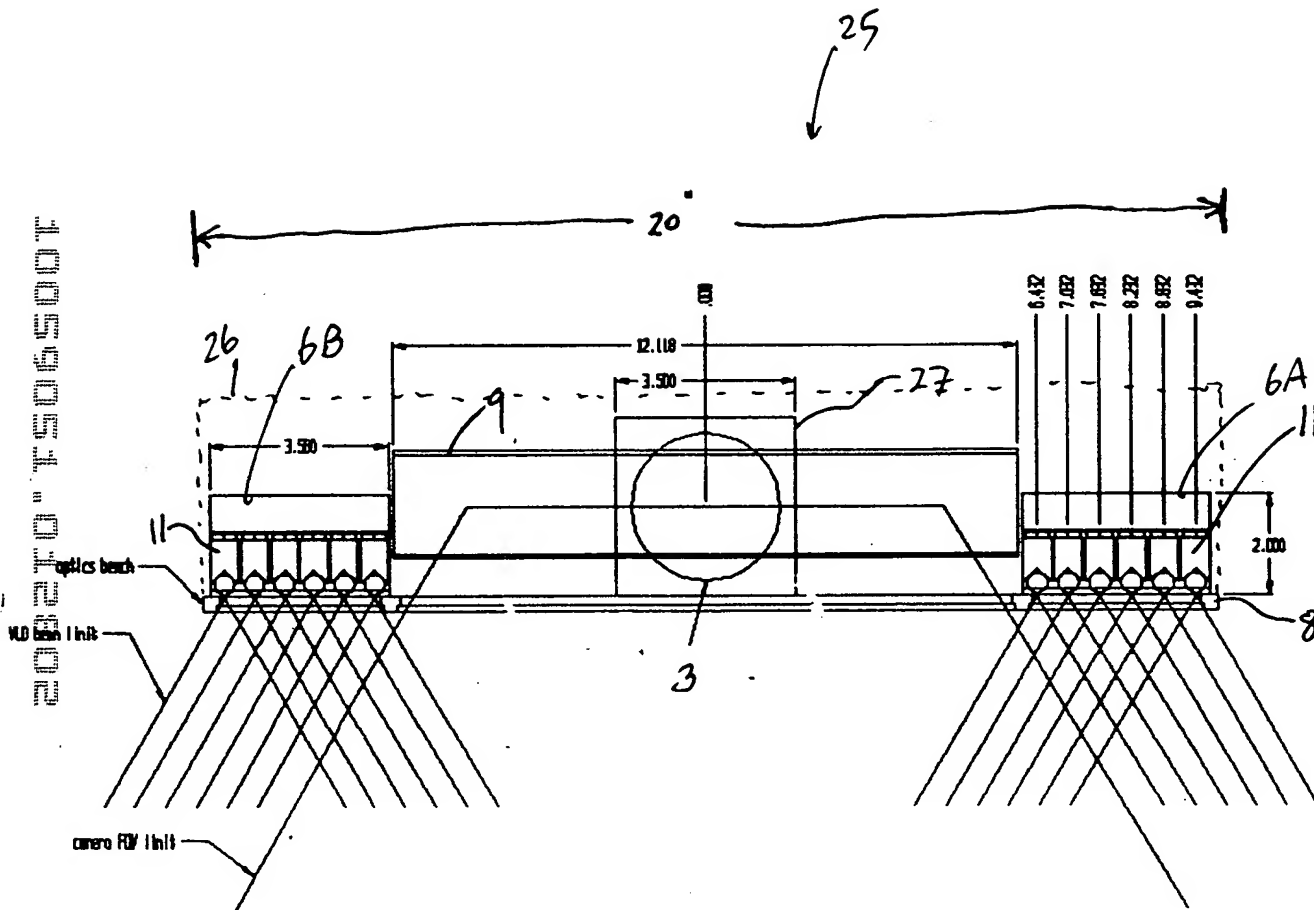


FIG. 16.3.

9/137

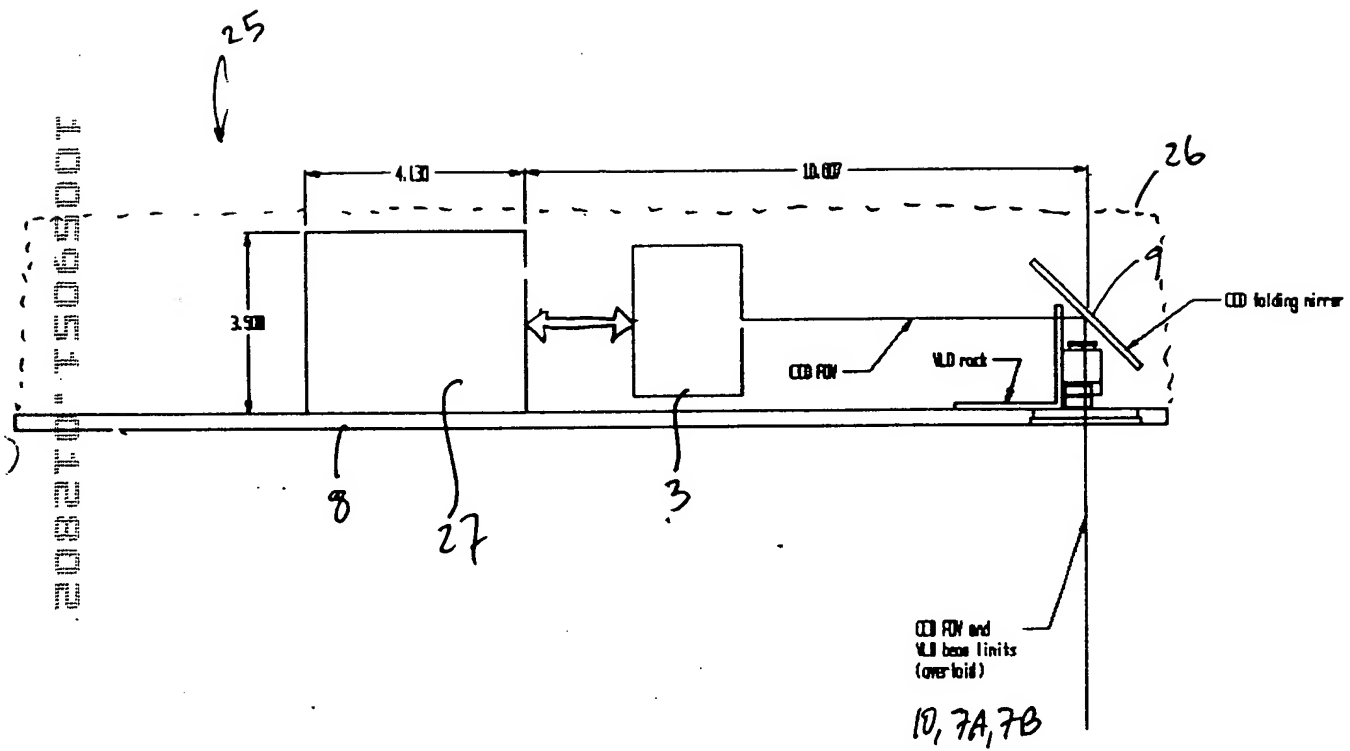
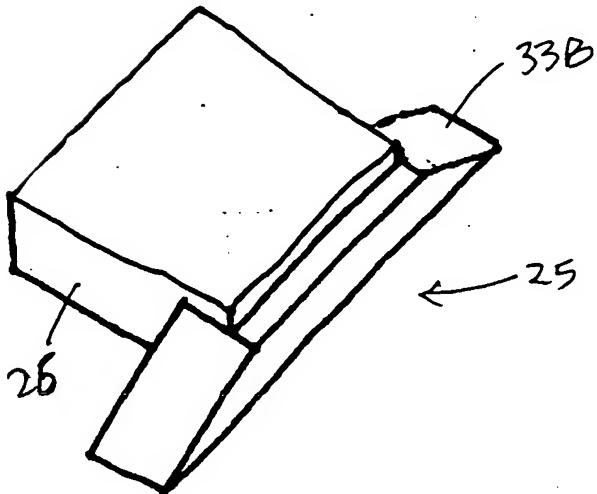
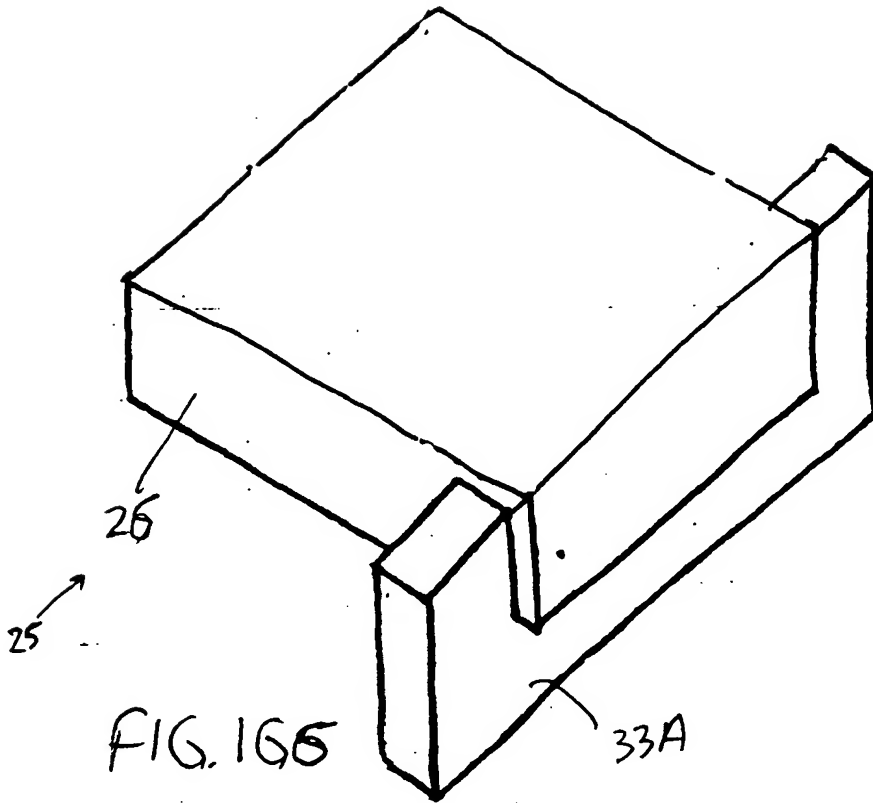


FIG. 1G4

109057



FIG. 165



202210 T5065007

12/137

6A, 6B

32A

32B

FIG. 1G 8

16 13 14 14B

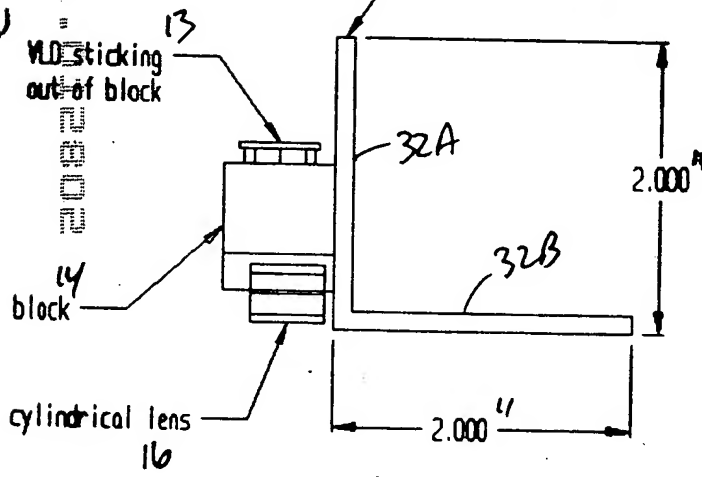


FIG. 1G 9

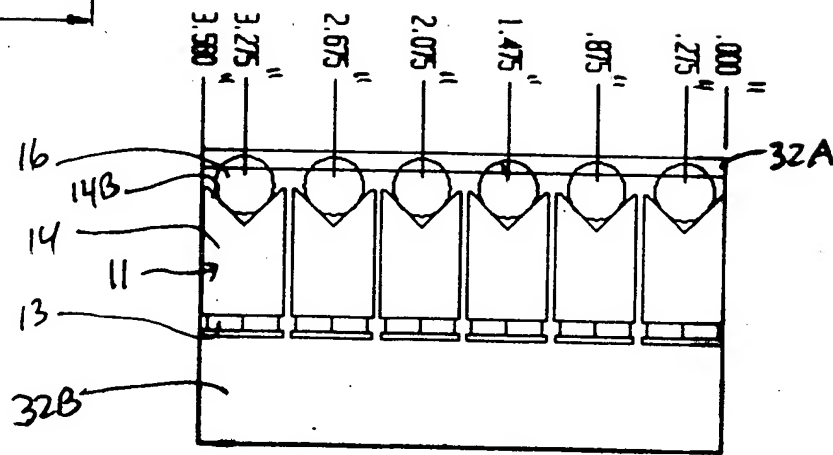
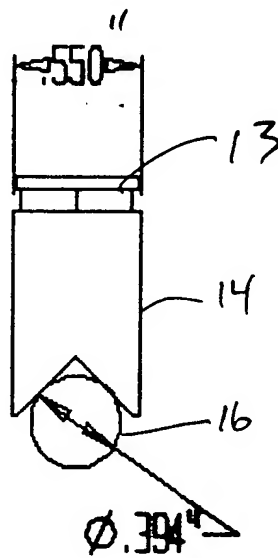
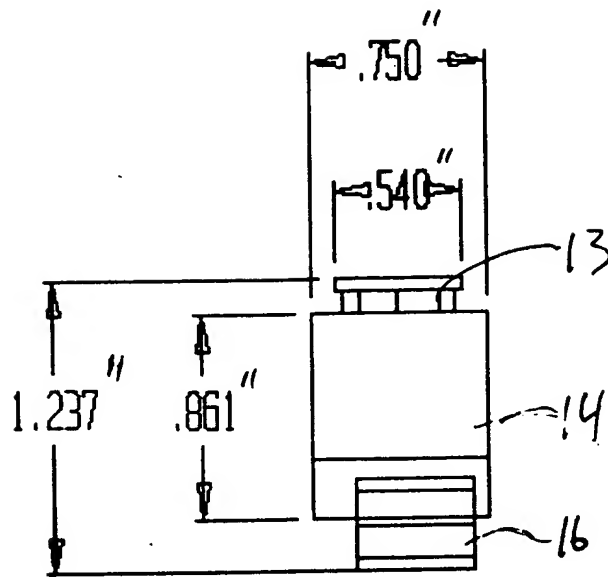


FIG. 1G 10

13/137



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14/137

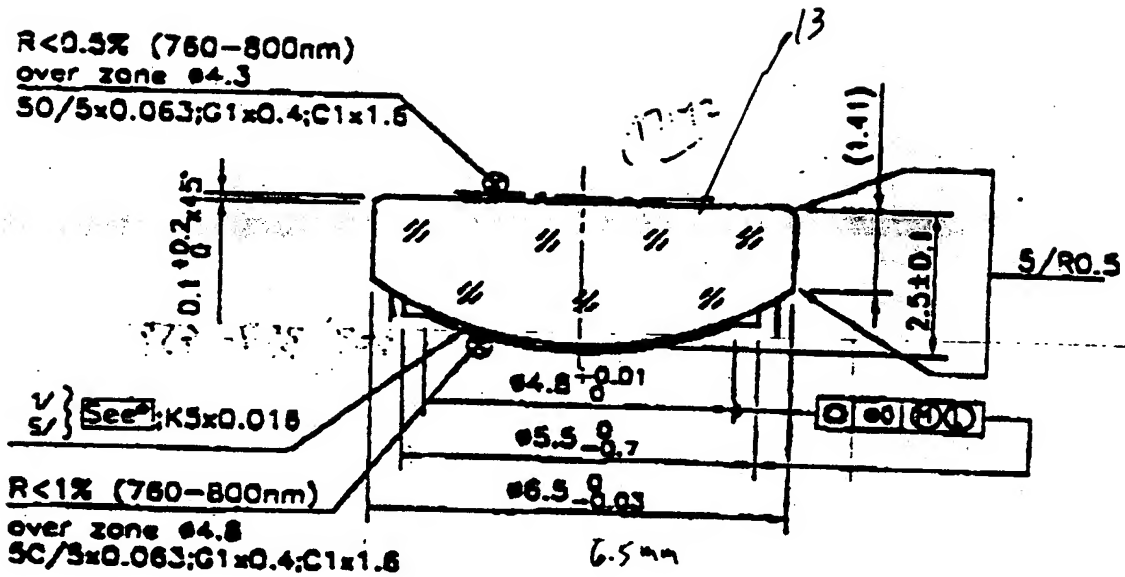


FIG. 1H1

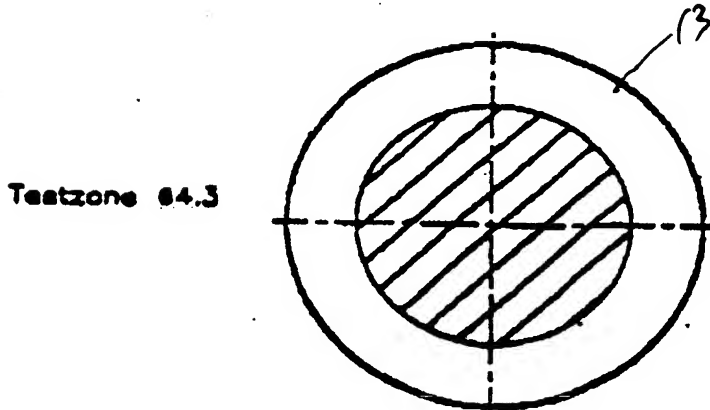


FIG. 1H2

208210-15065001

15/137

208270" T506500T

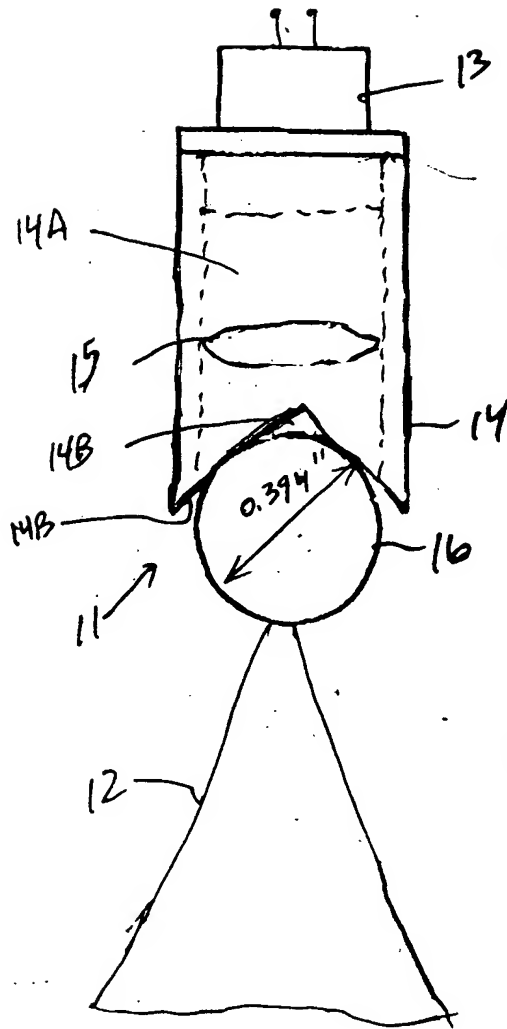


FIG. 1I1

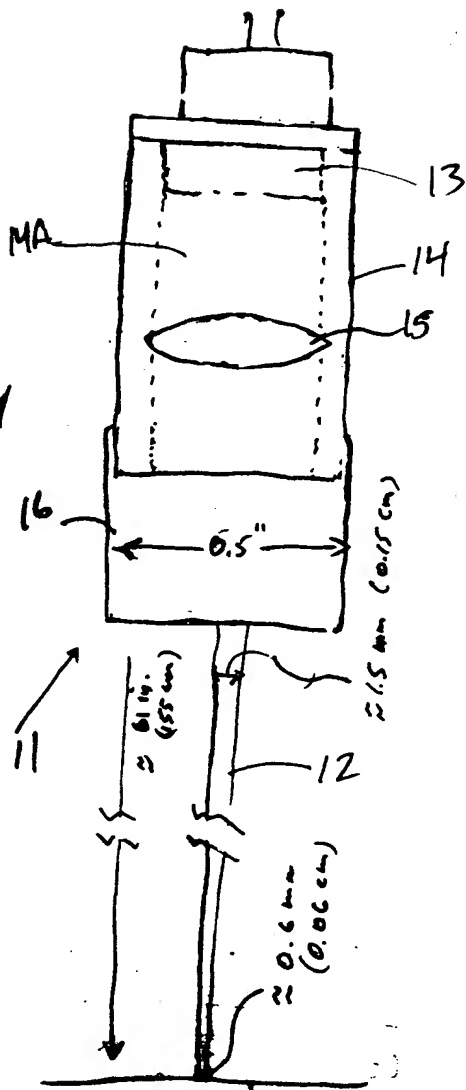


FIG. 1I2

furthest
object/working
distance

16/137

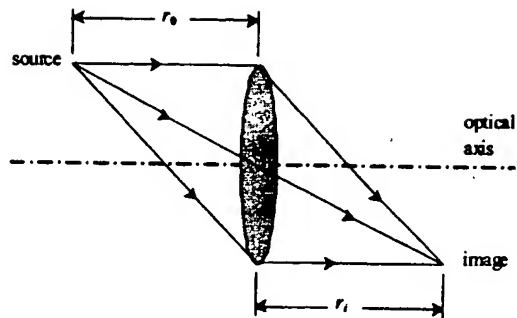


FIG. 1J1

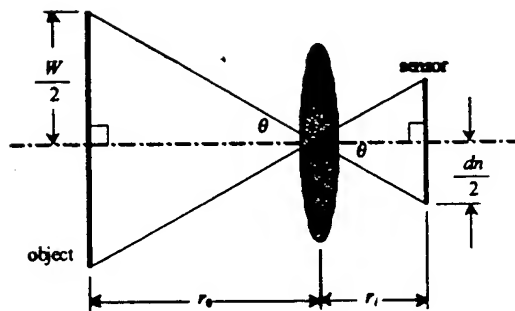


FIG. 1J2

208270" T506500T

17/137

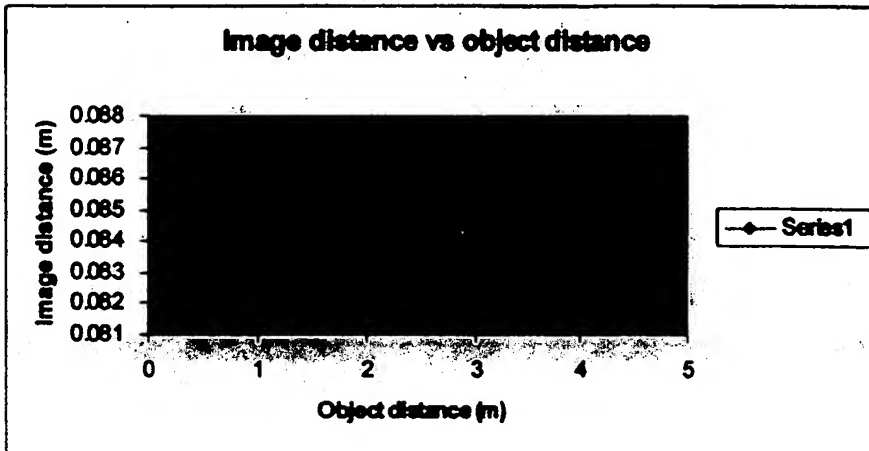


FIG. 1J3

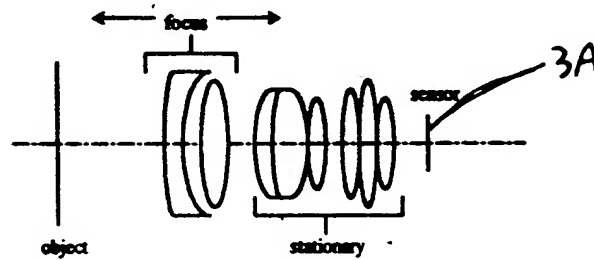


FIG. 1J4

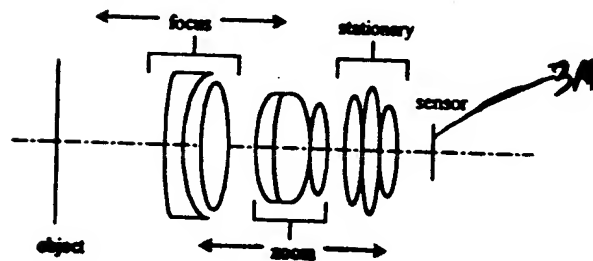


FIG. 1J5

208270-15065007

10/137

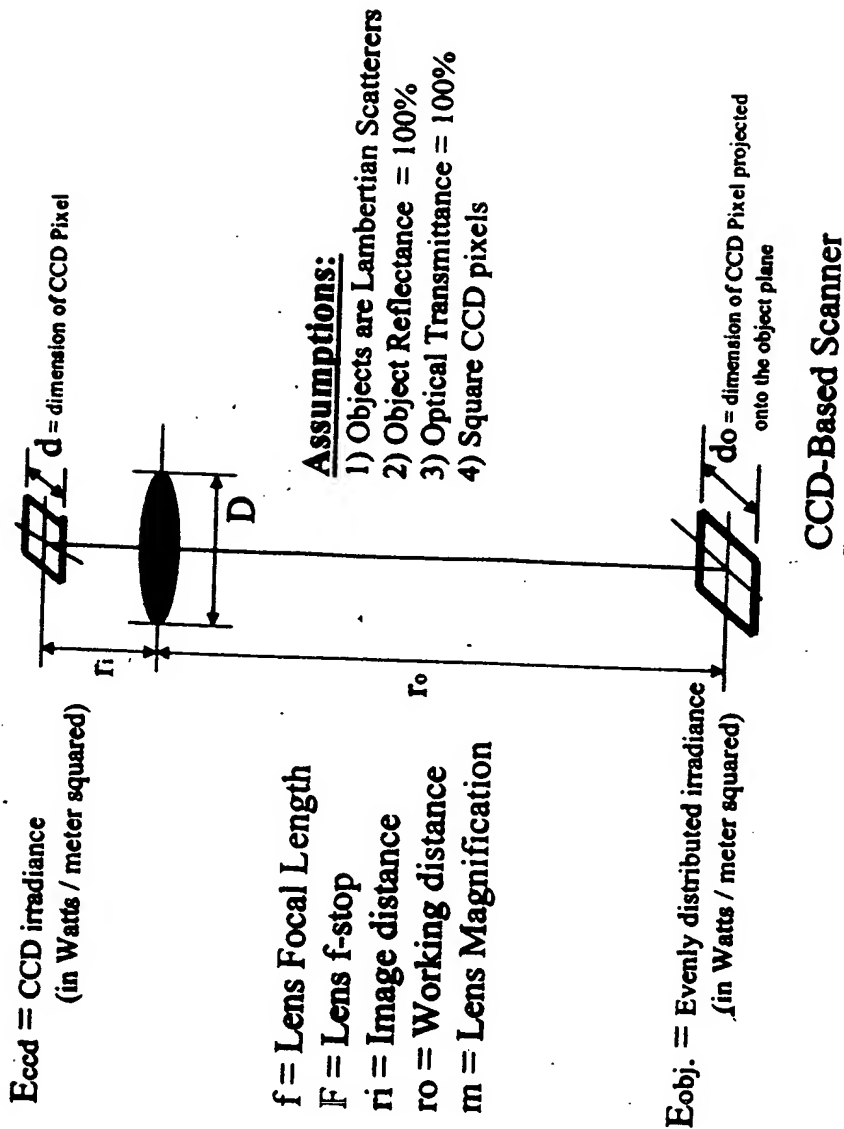


FIG. 1J6

14/137

Fixed focal length lens
cases

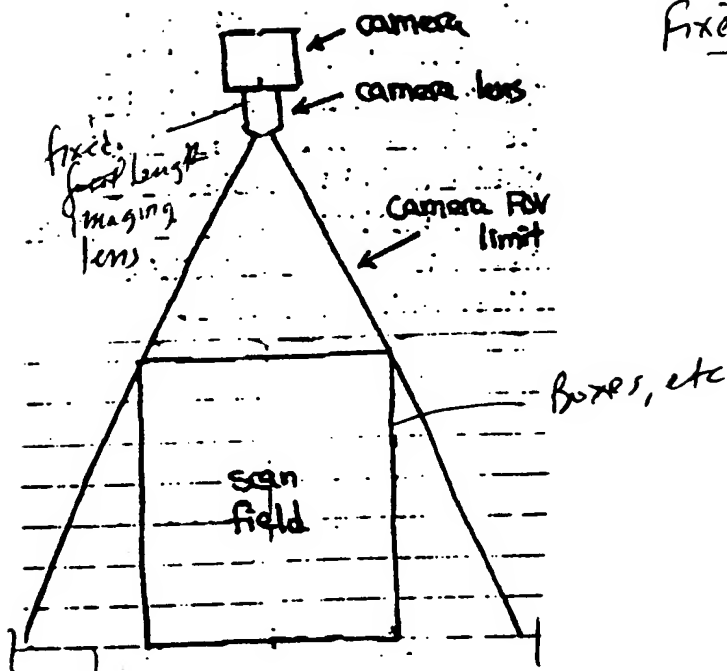


FIG 1K1

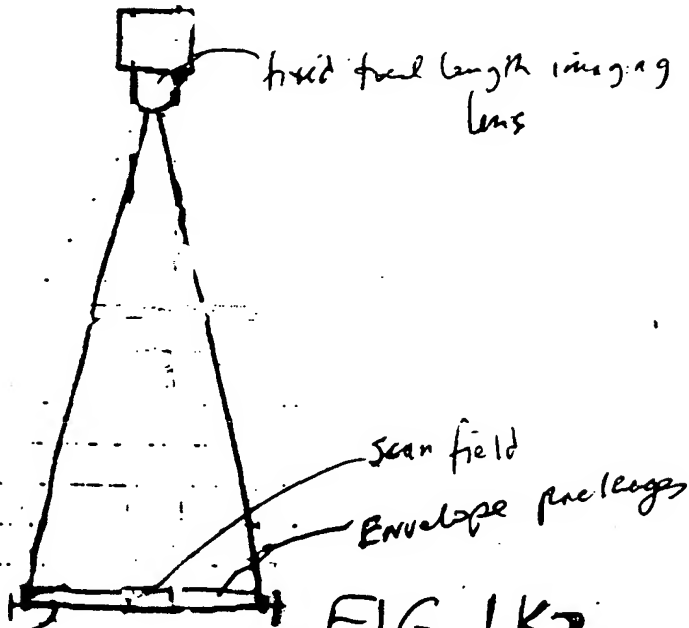


FIG 1K2

208270-15065001

20221015065001

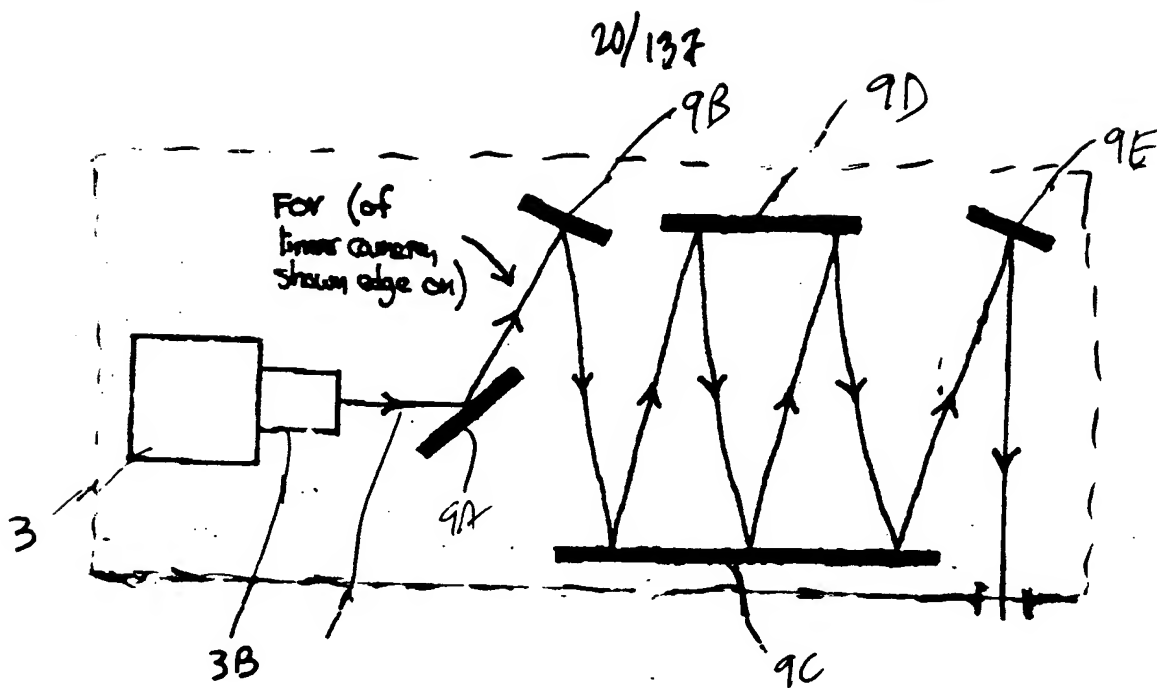


FIG. 1L1

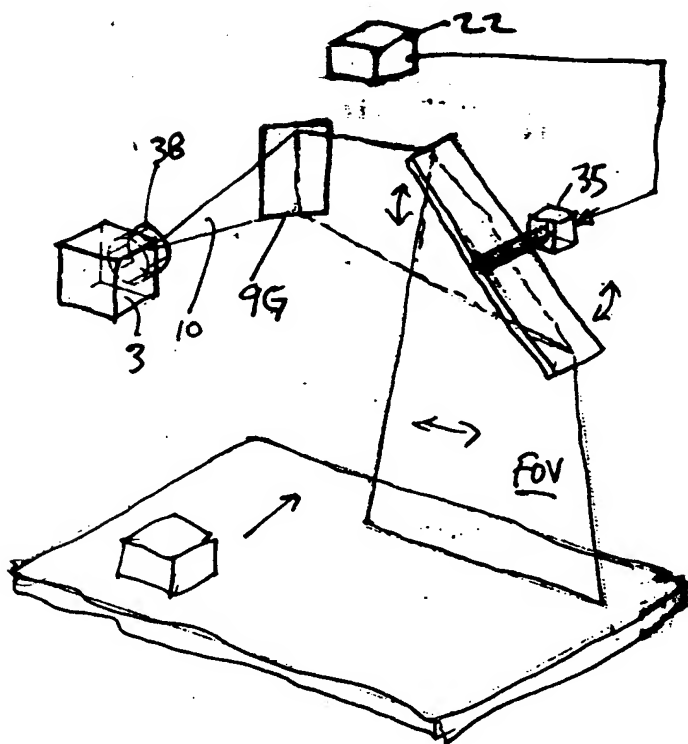


FIG. 1L2

21/137

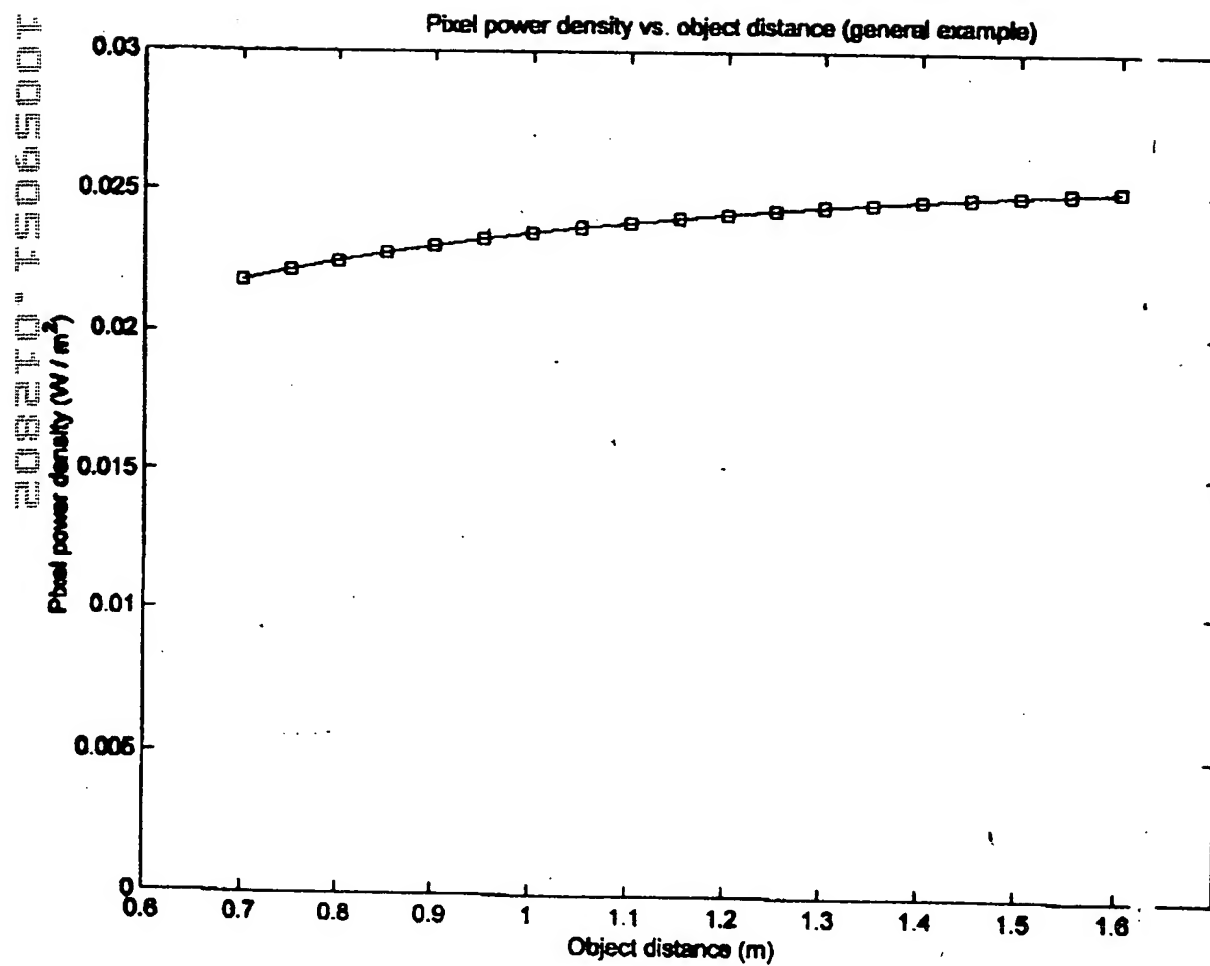


FIG. 1M1

22/137

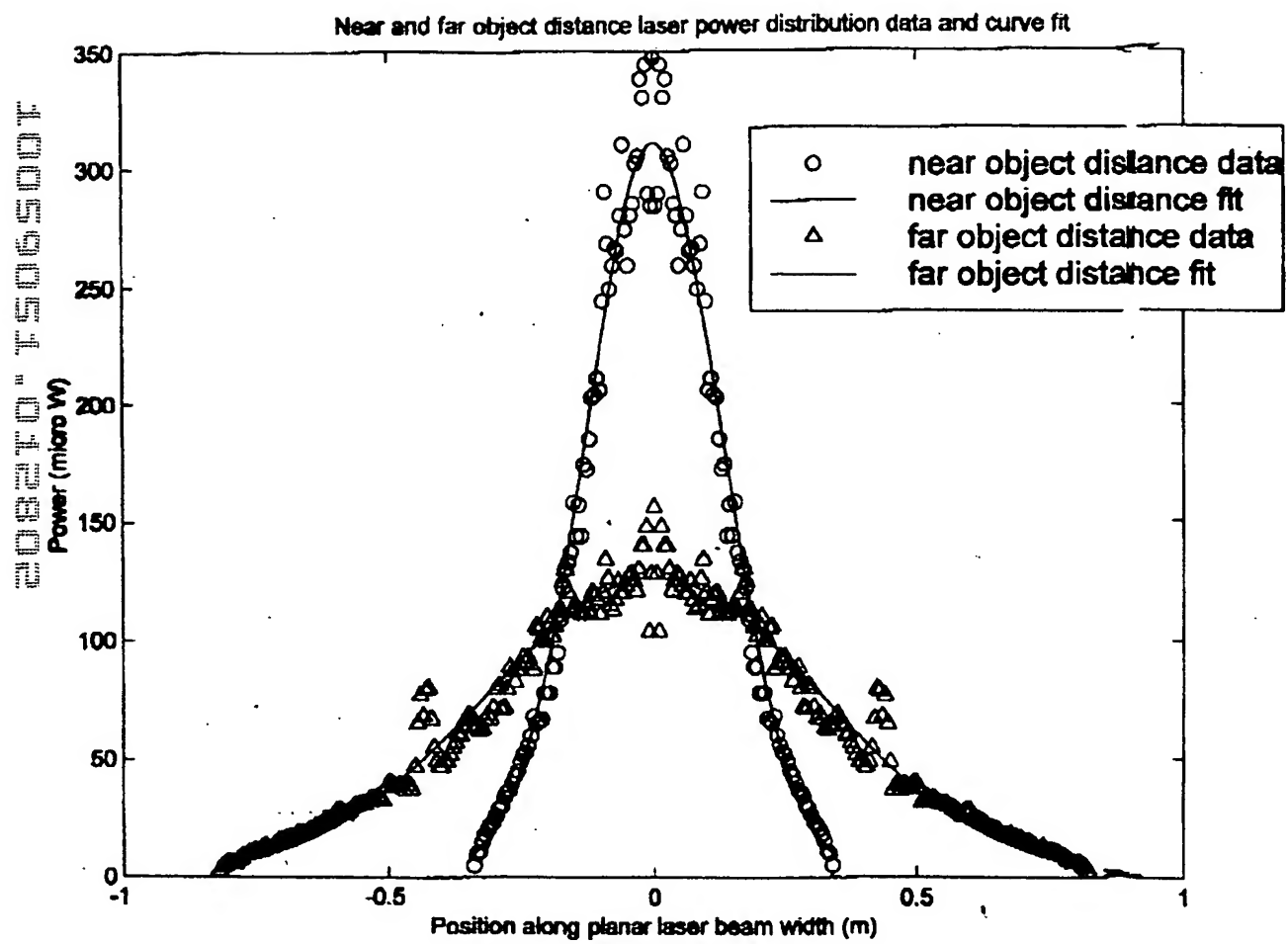


FIG. 1M2

23/137

200210" F506500T

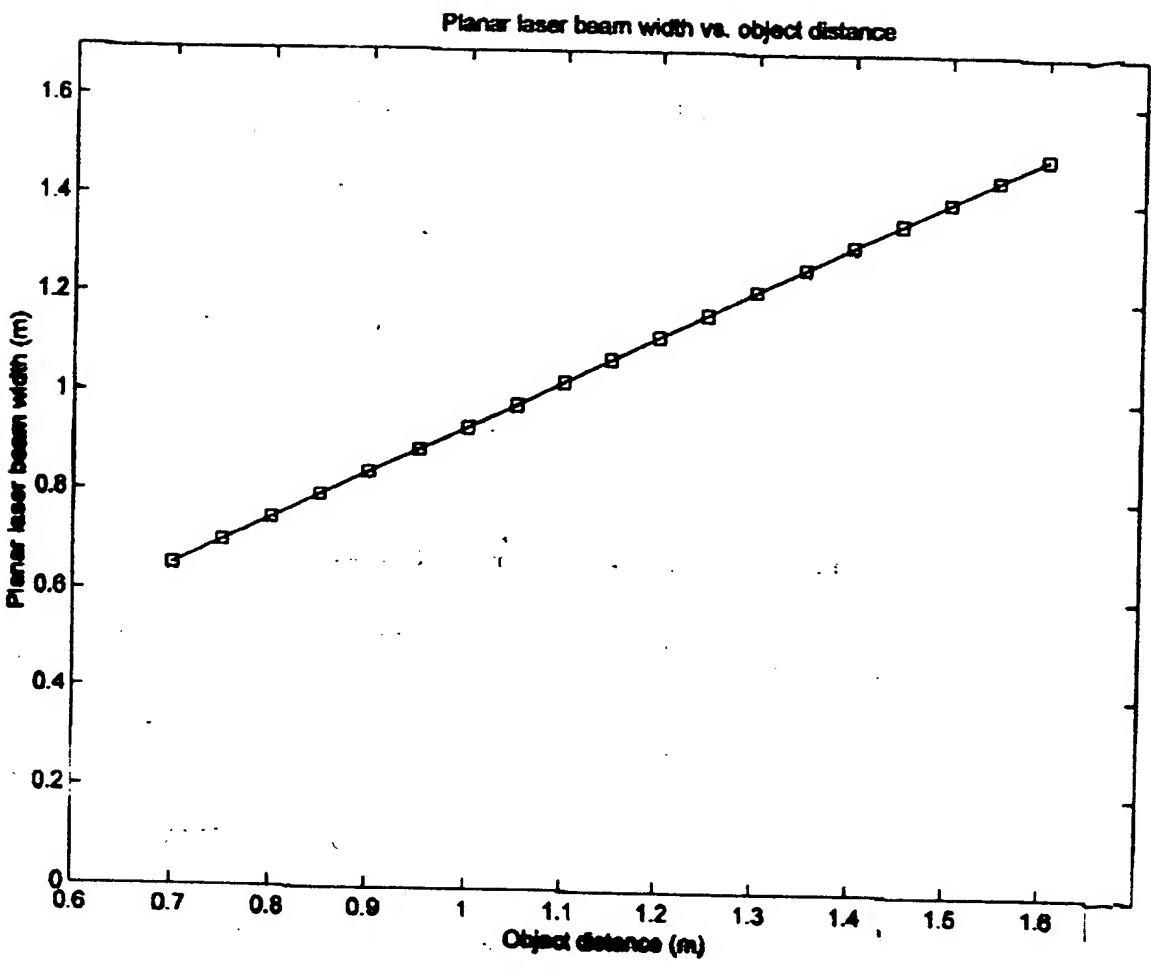


FIG. 1M3

24/137

Figure 4: Planar laser beam height vs. object distance (far object distance focus)

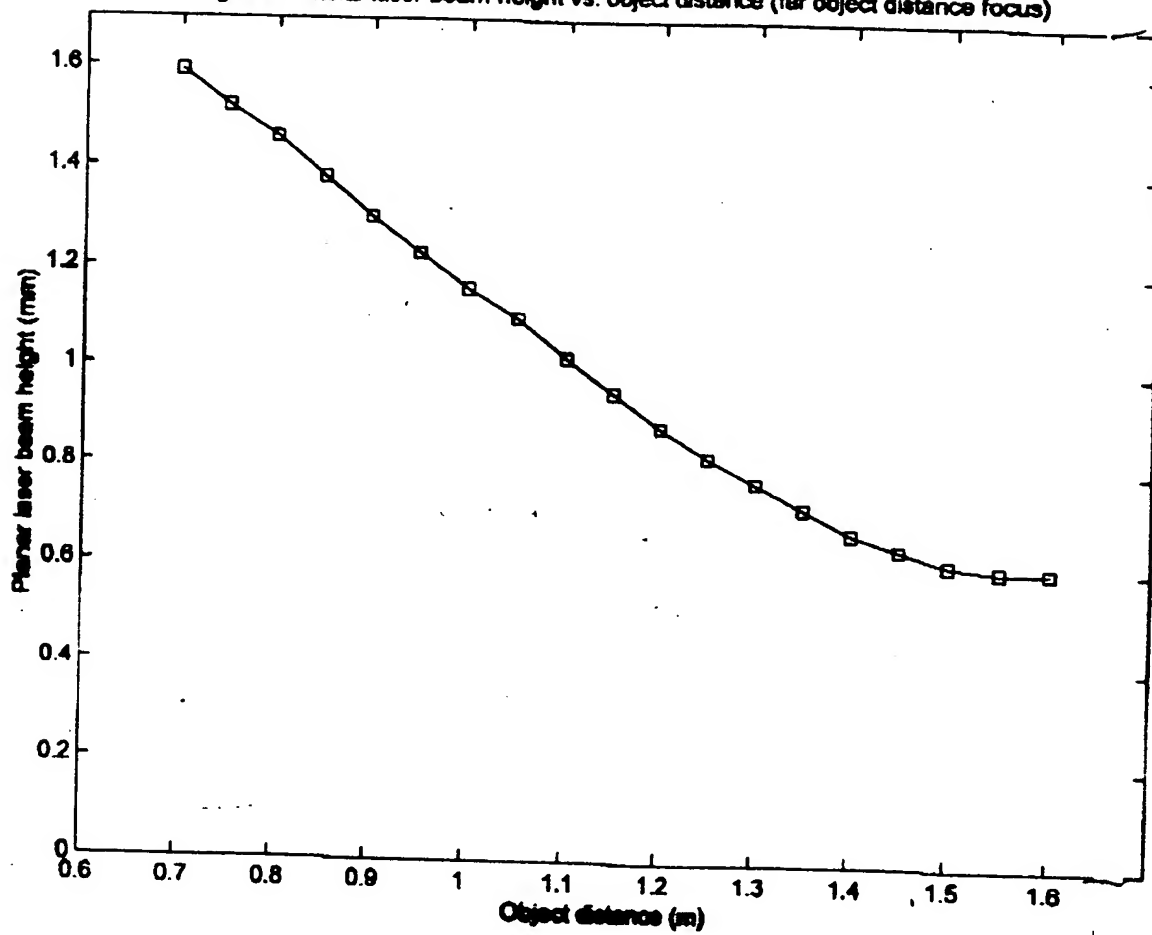


FIG 1M4

25/137

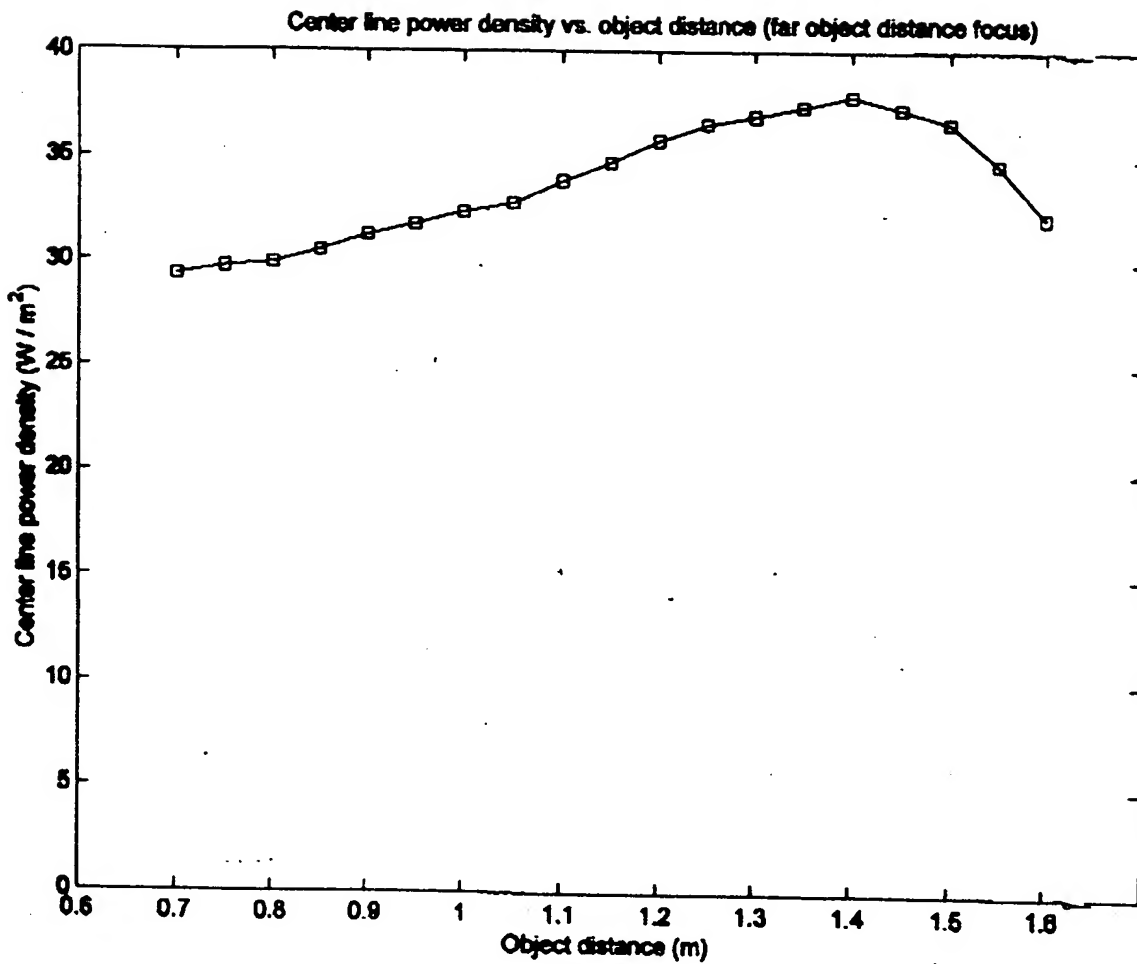


FIG. 1N

26/137

Figure 6: Pixel power densities vs. object distance

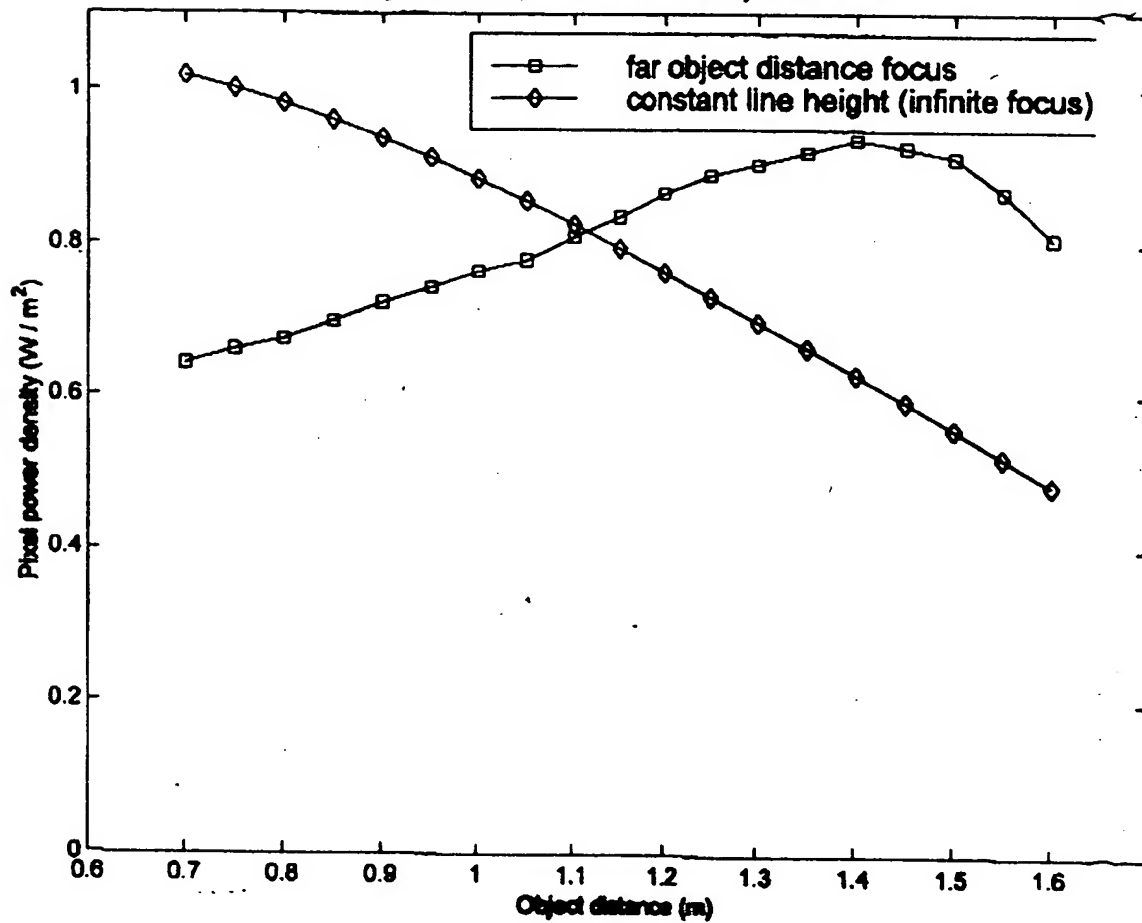


FIG. 10

27/137

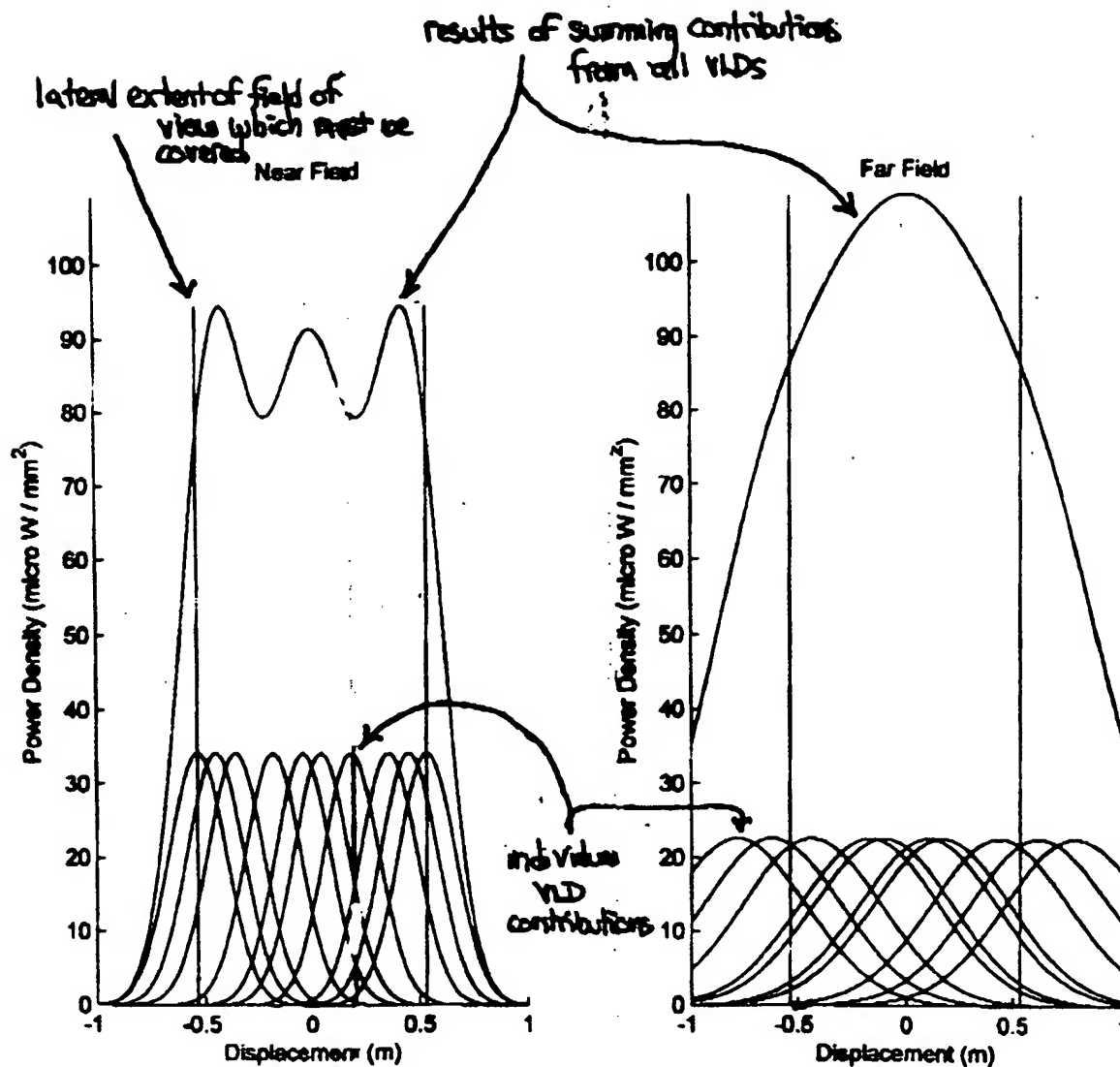


FIG 1P1

FIG 1P2

20/137

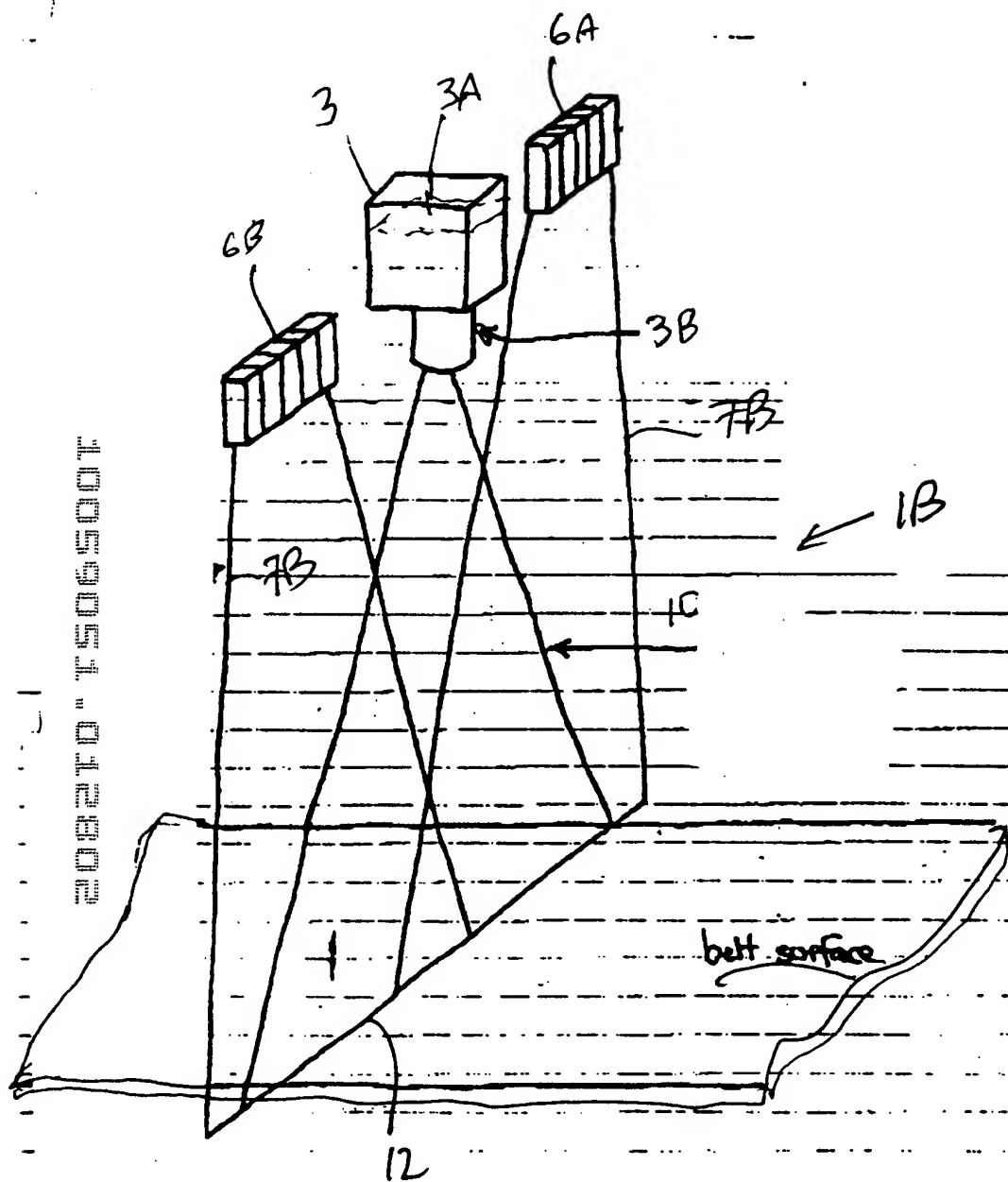


FIG. 101

29/137

Fixed focal length / Fixed focal Distance

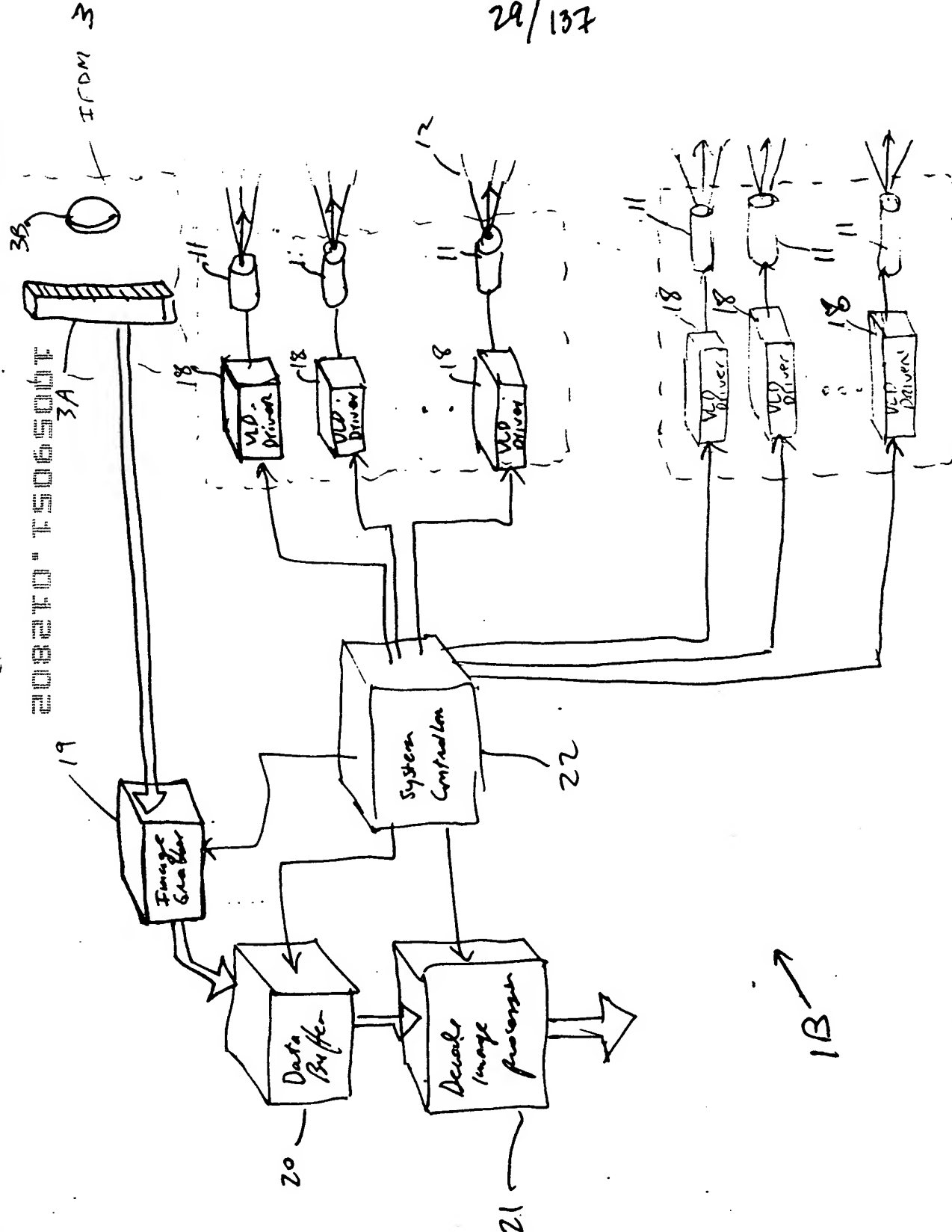


FIG. 1Q2

30/137

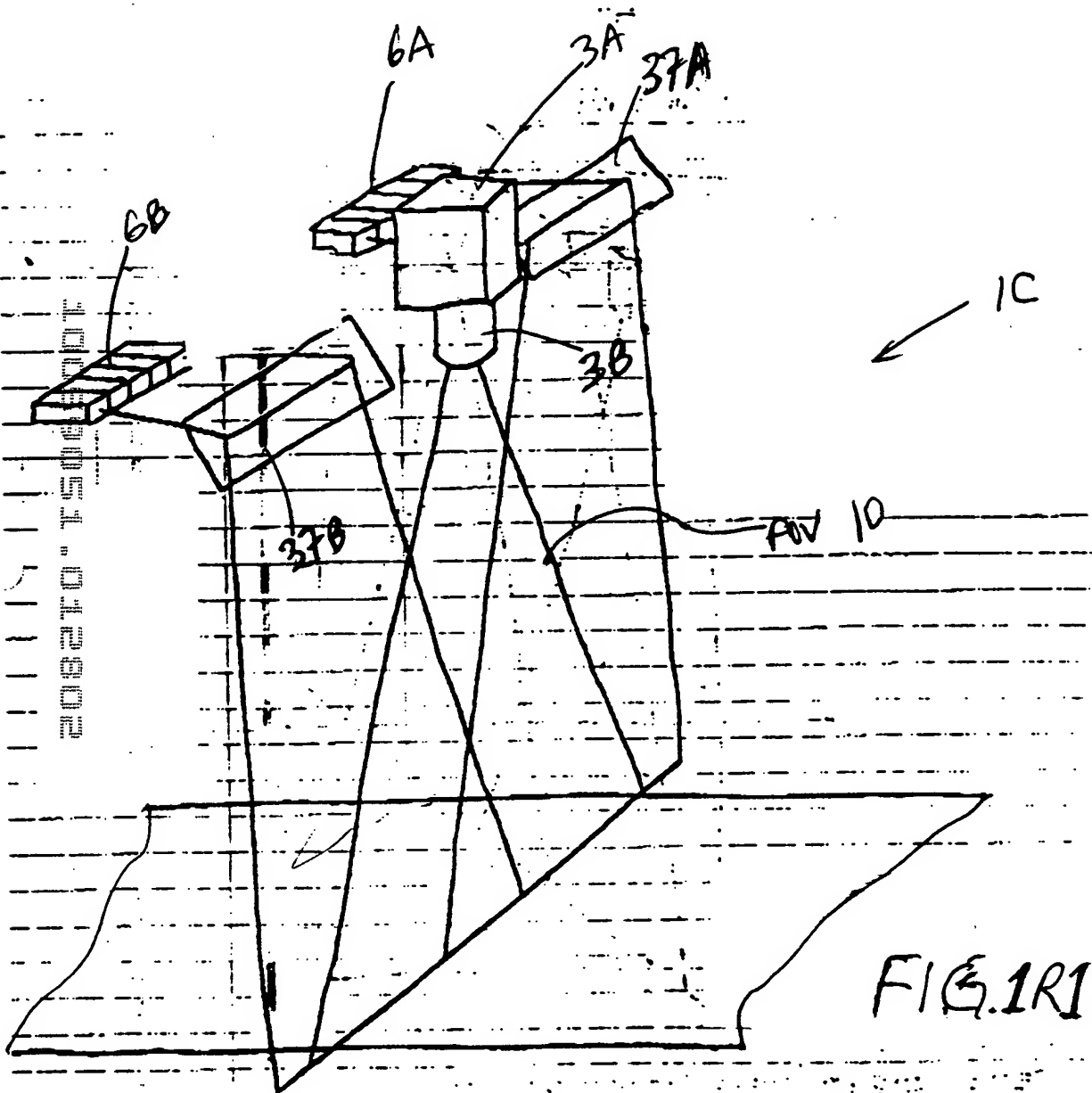


FIG. 1R1

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IFDM 3

31/137

378
Lucy's

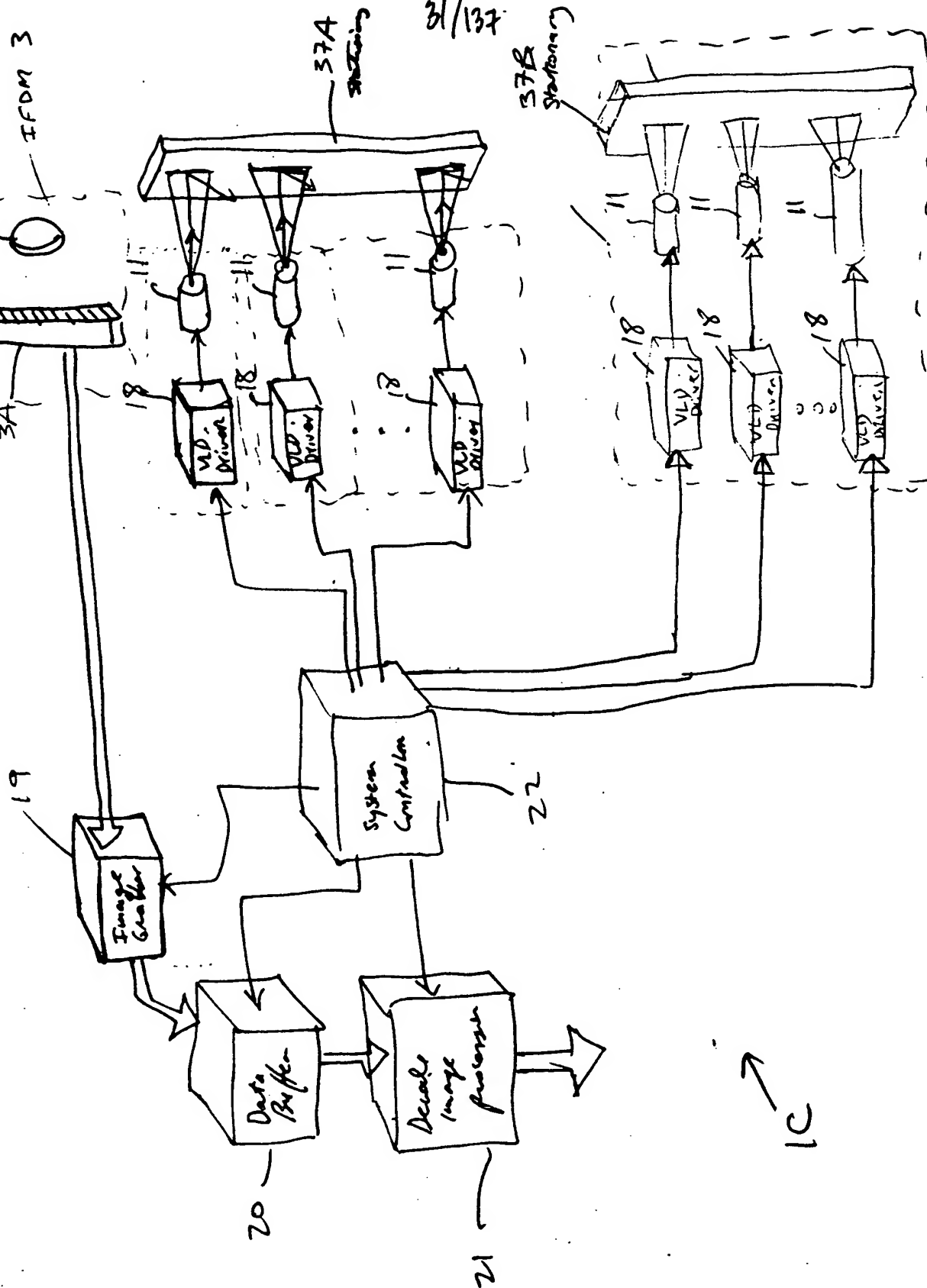
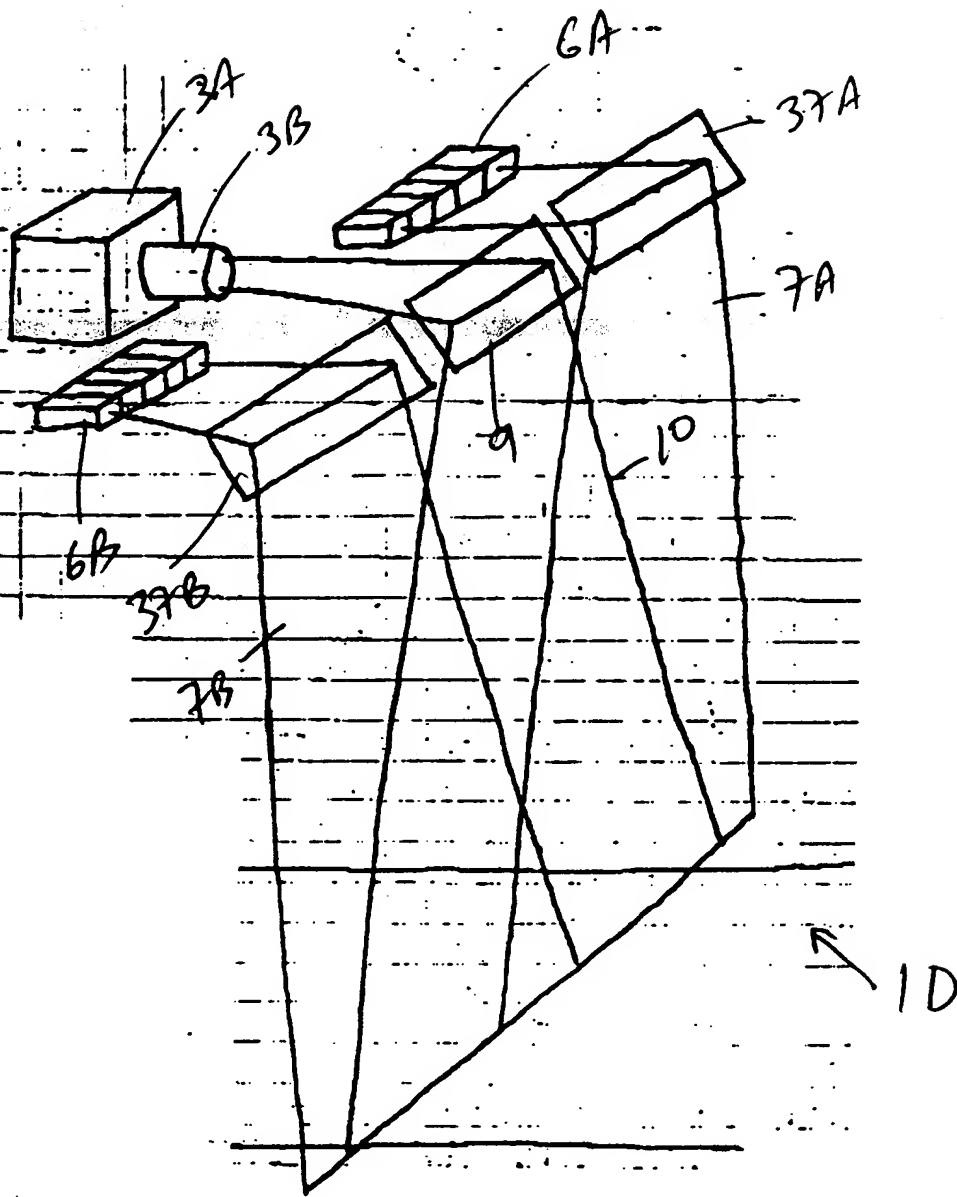
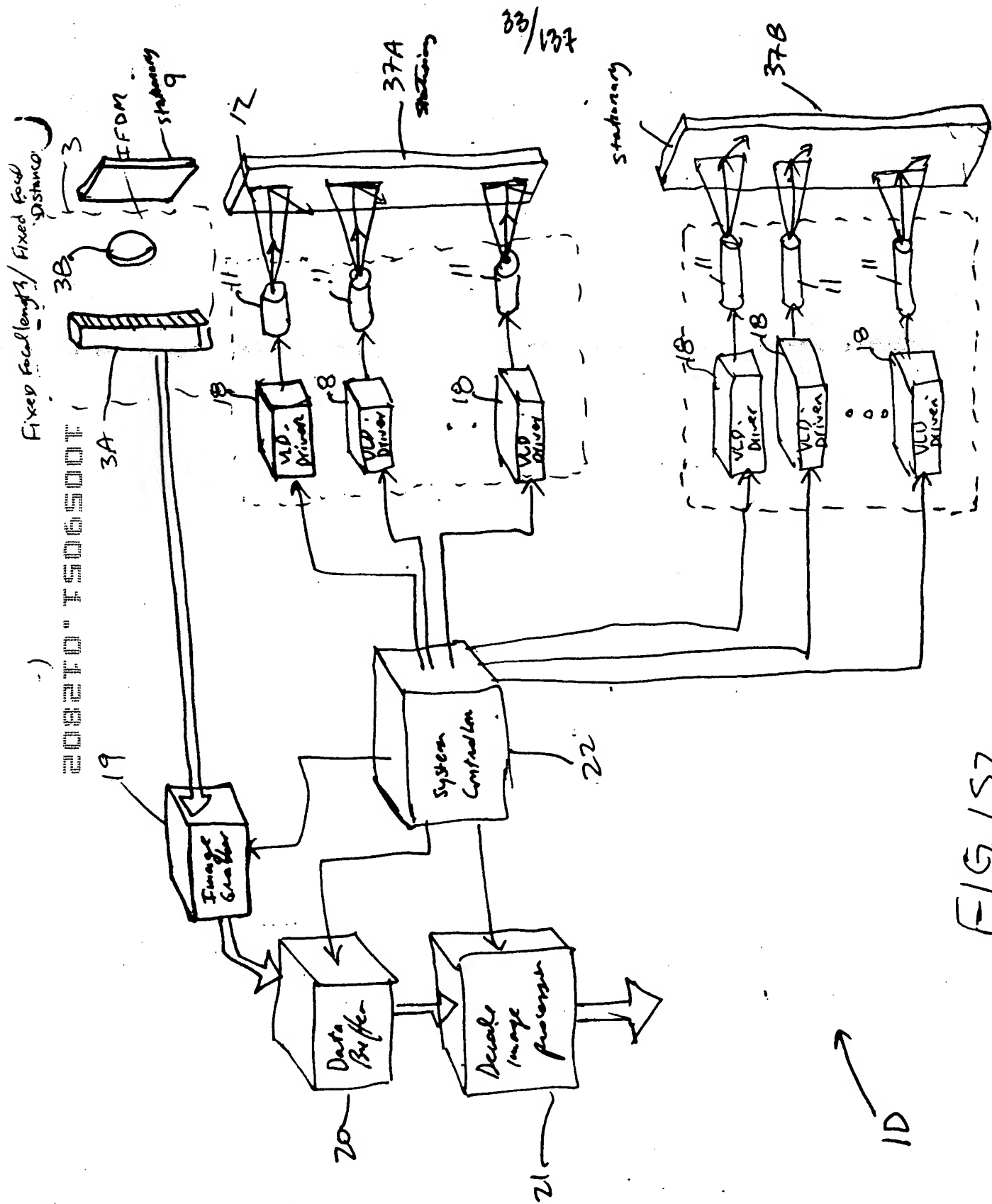


FIG. 1R2

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32/137





34/137

208270" T506500T

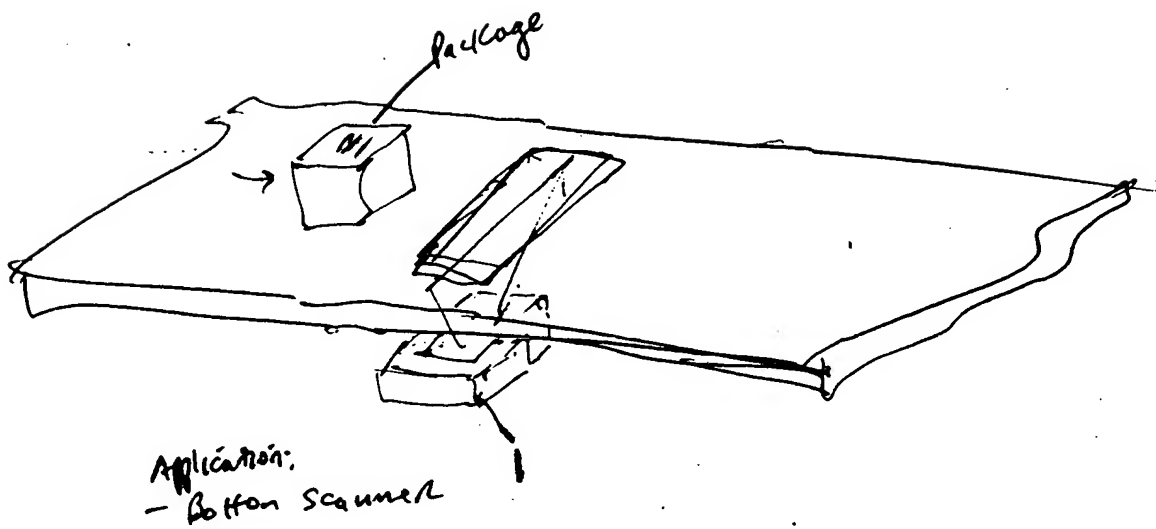
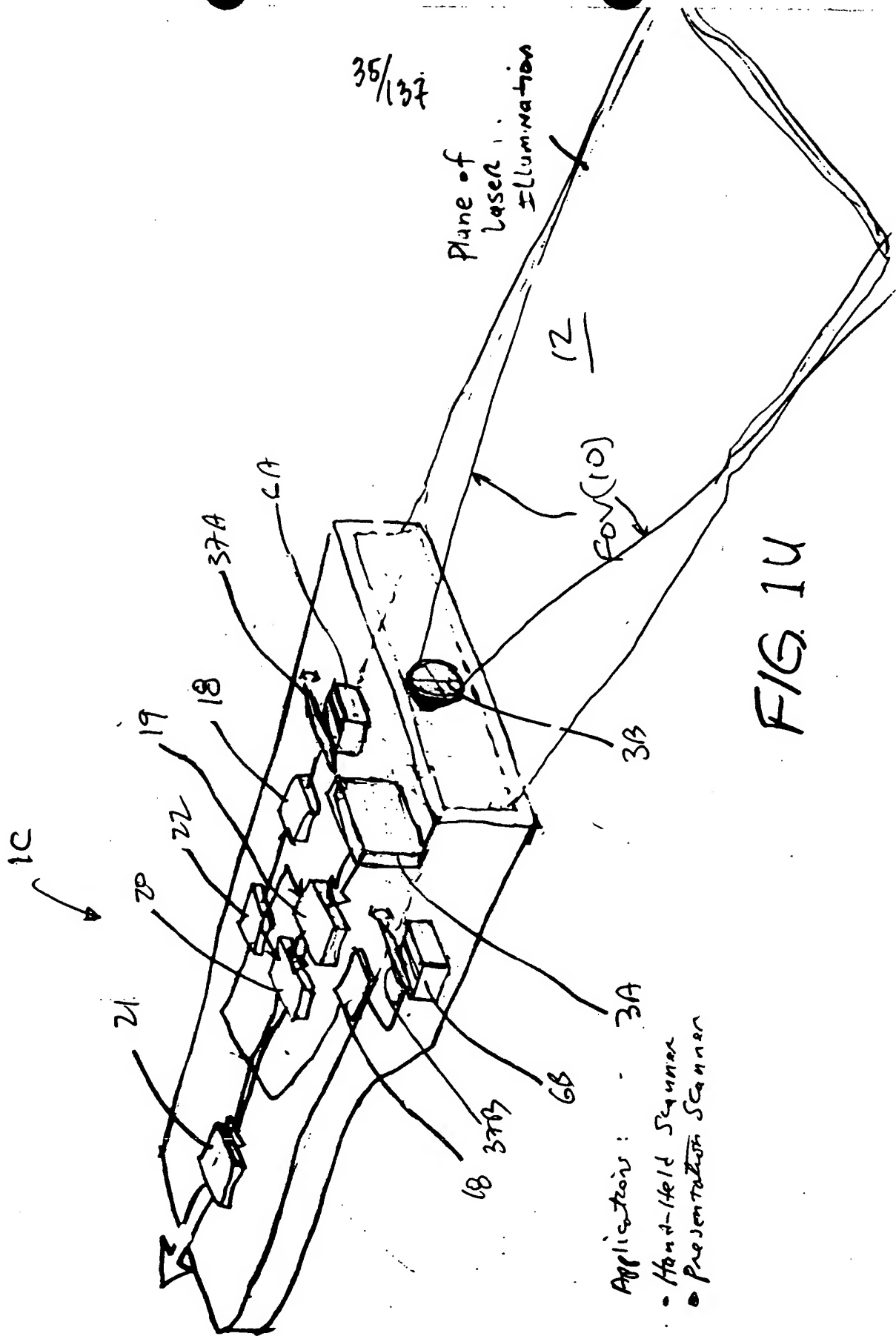


FIG 1T



Applications:

- Hand-Held Scanner
- Presentation Scanner



FIG. 1VI

32/137

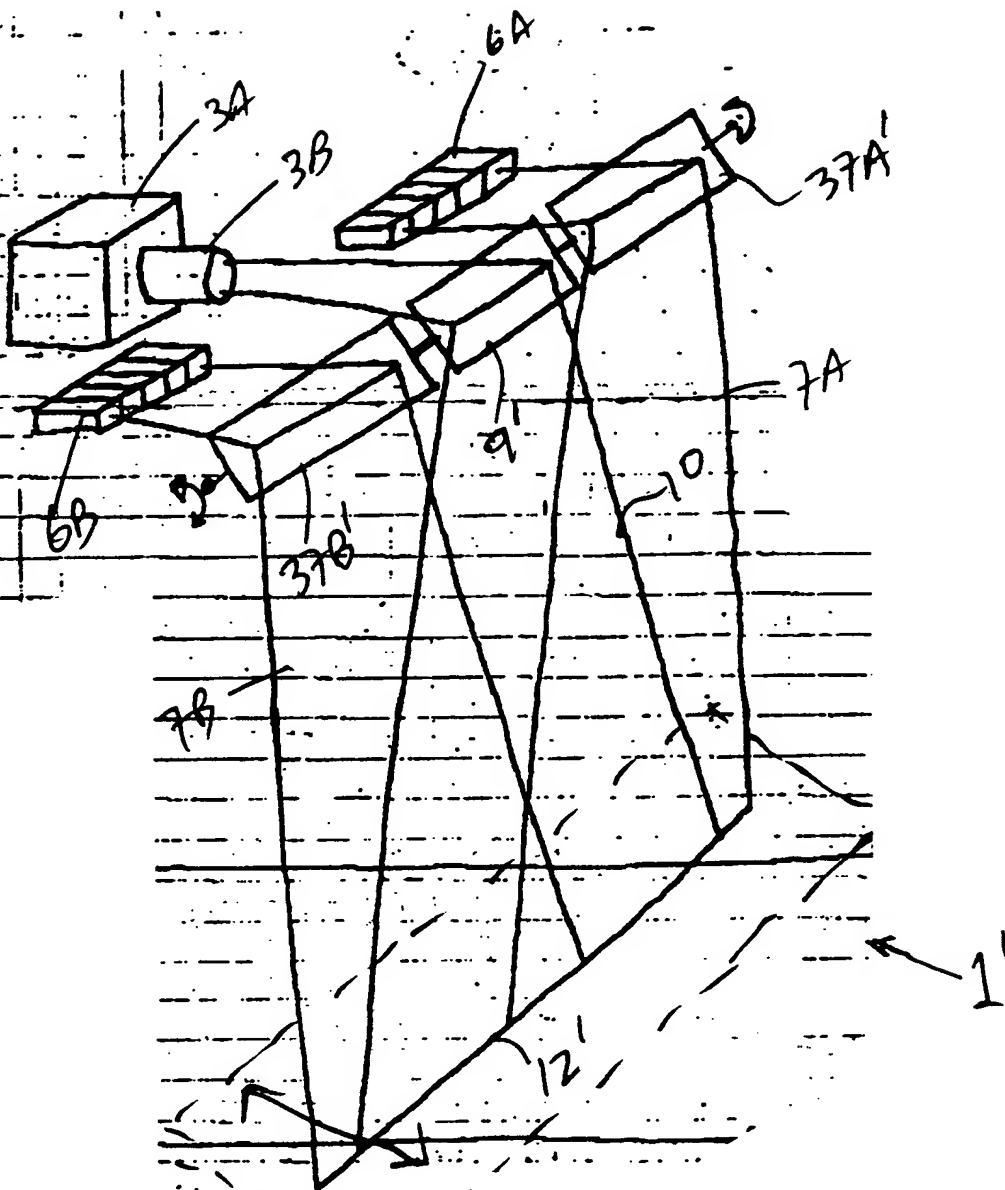


FIG. IV2

2-D
region
of
space

Fixed focal length / fixed focal distance

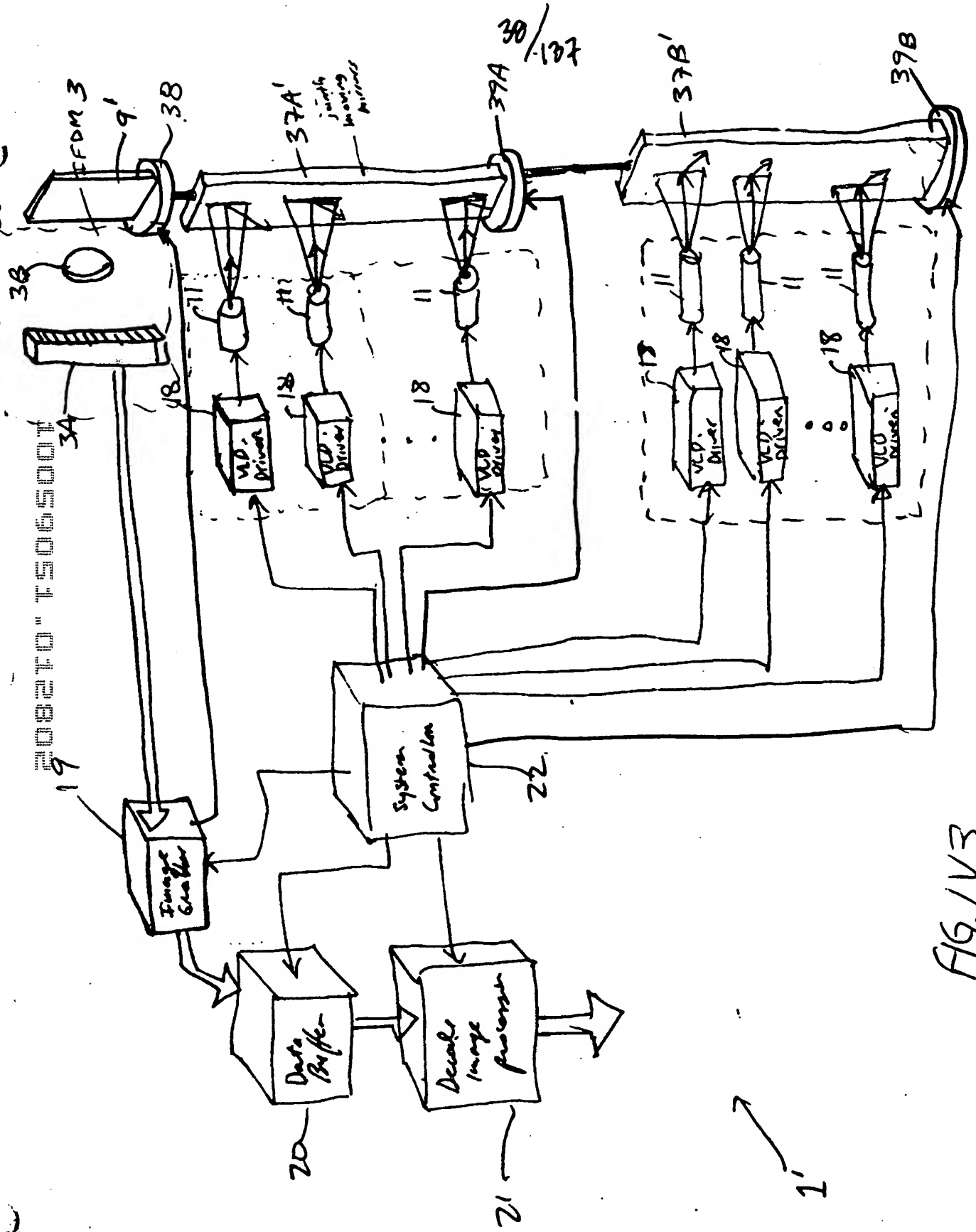


FIG. 1V3

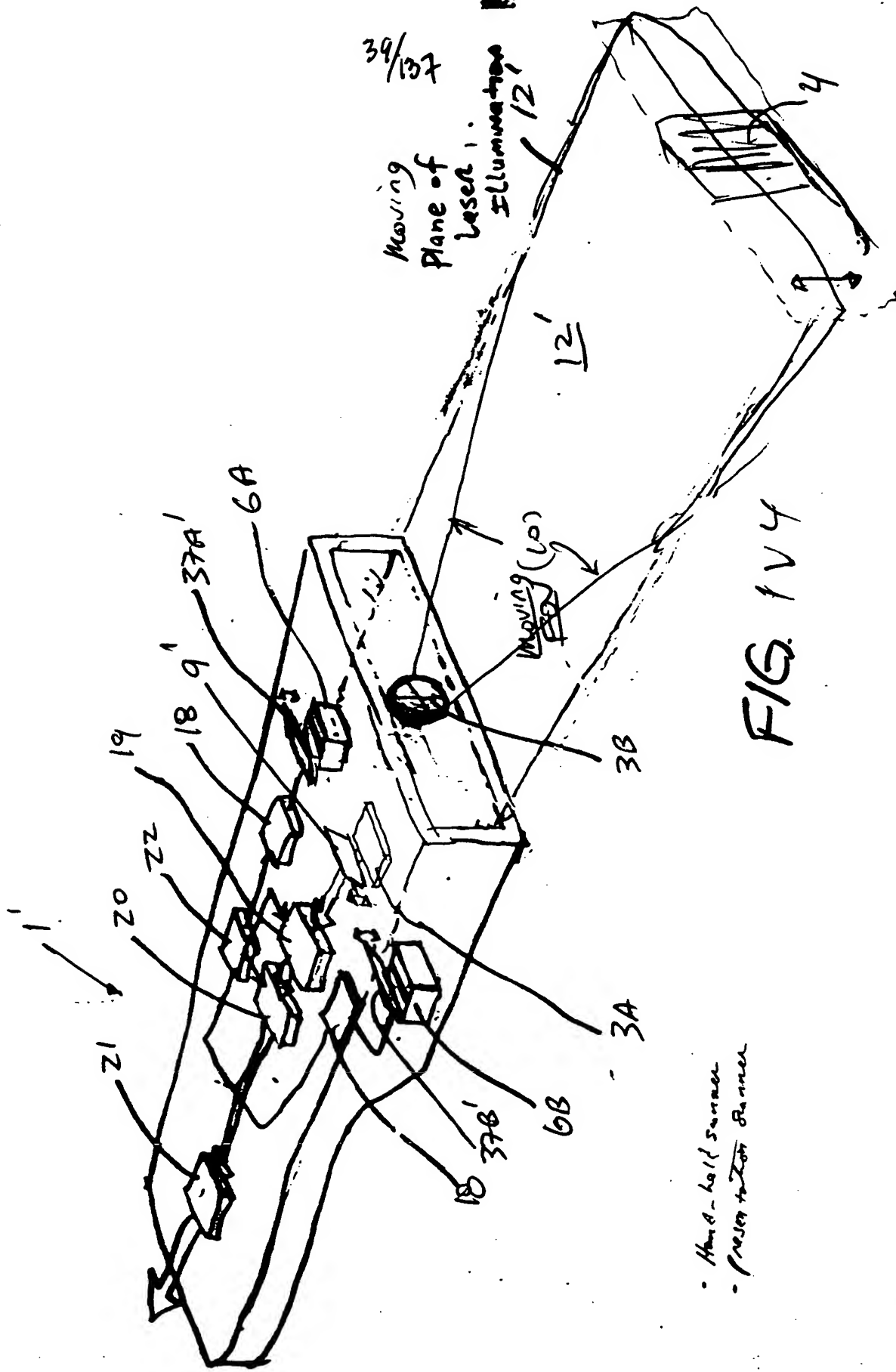
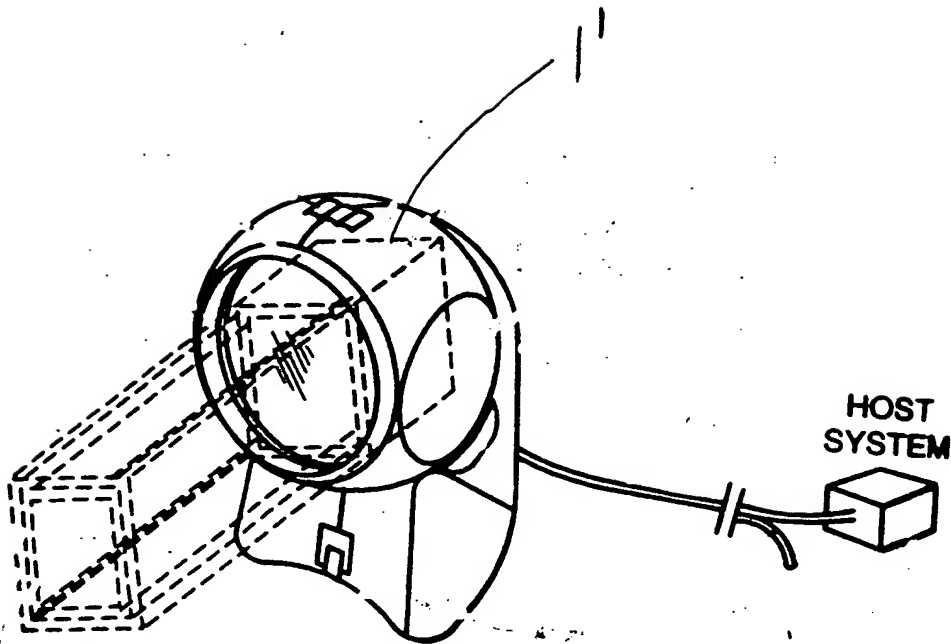


FIG. 1V4

40/137

208270" T506500T



(Presentation type scanner)

FIG. 1V5

208210" T506500T

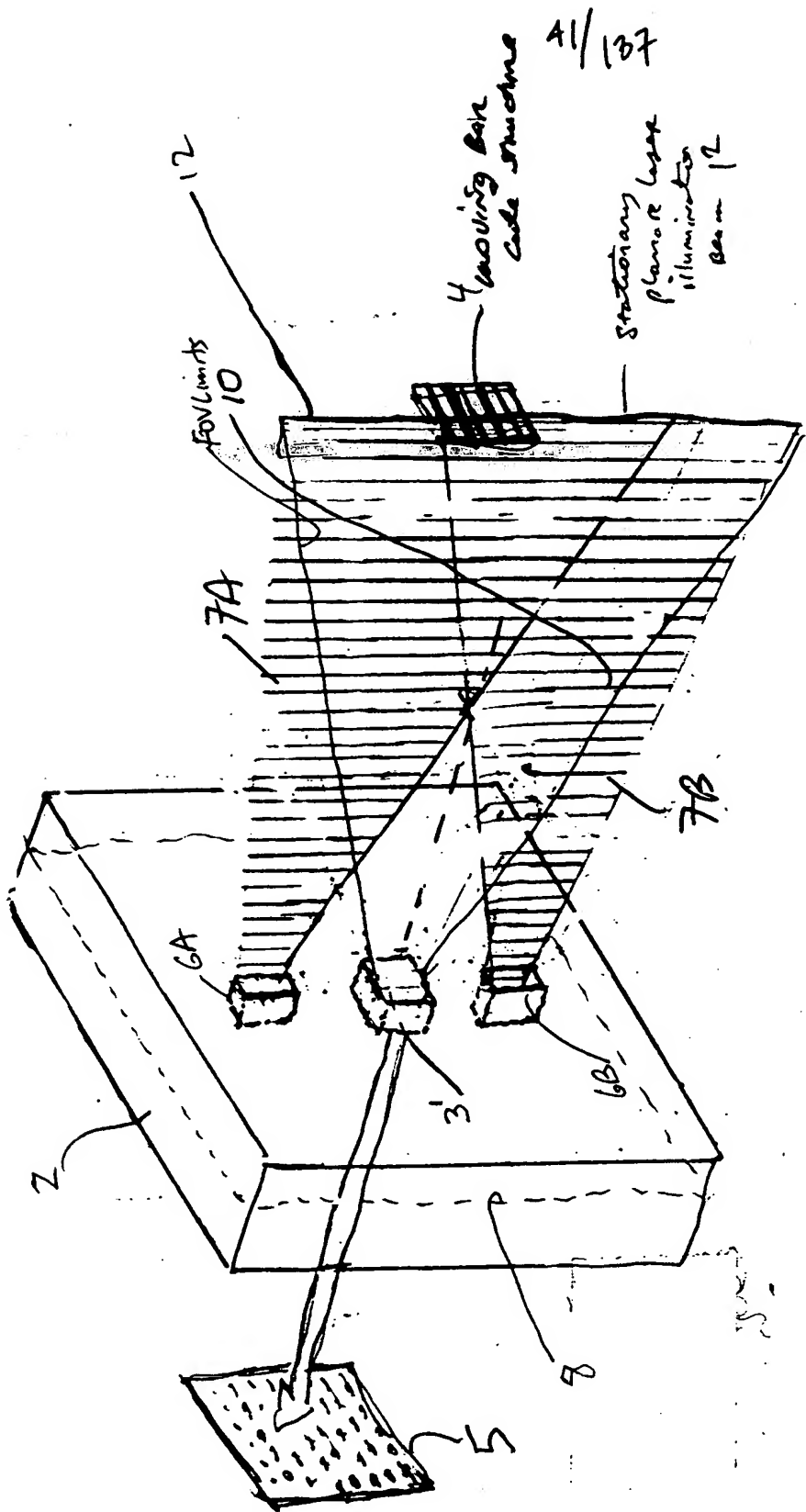


FIG. 2A

42/137

208210" T506500T

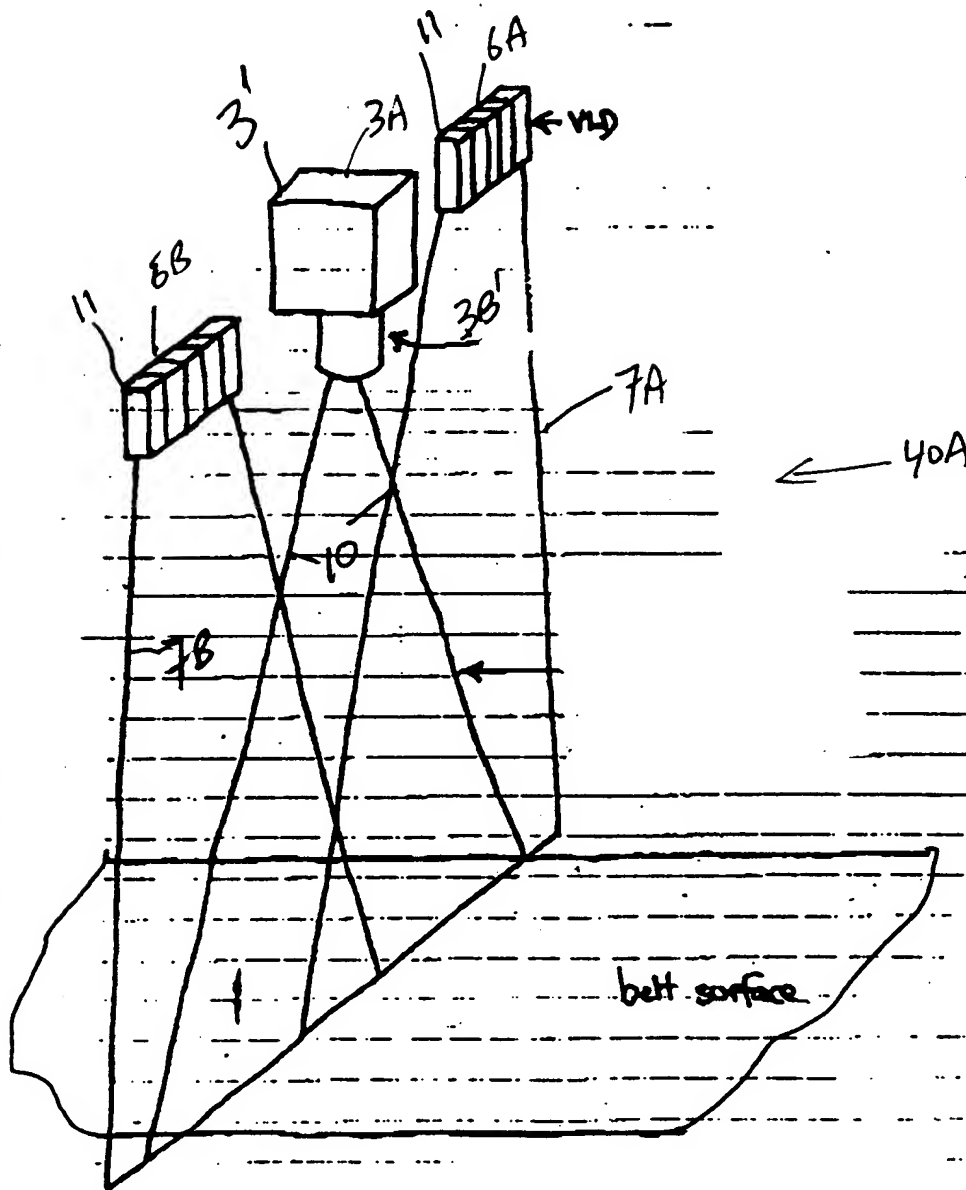


FIG. 2 B1

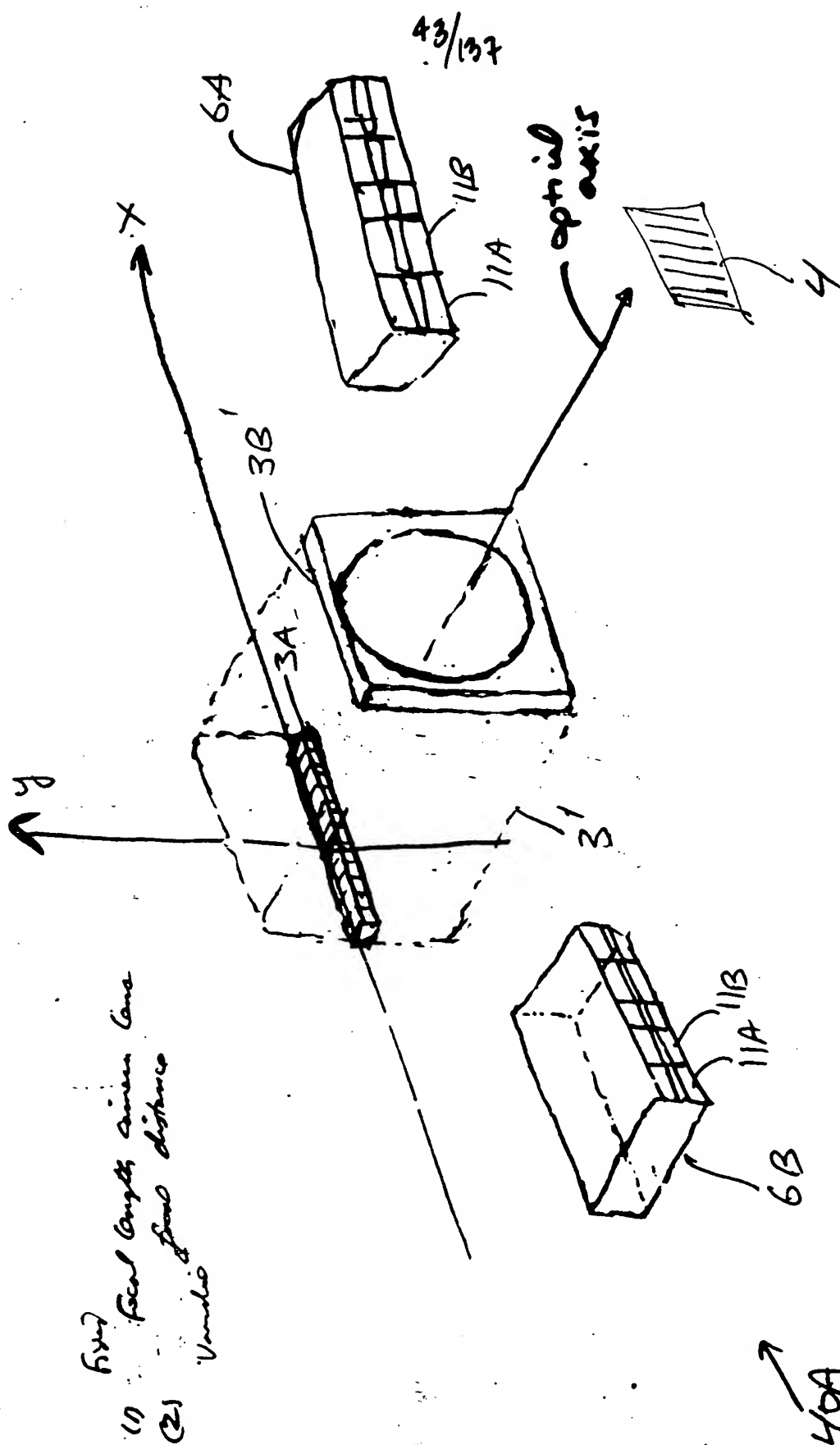


FIG. 2B2

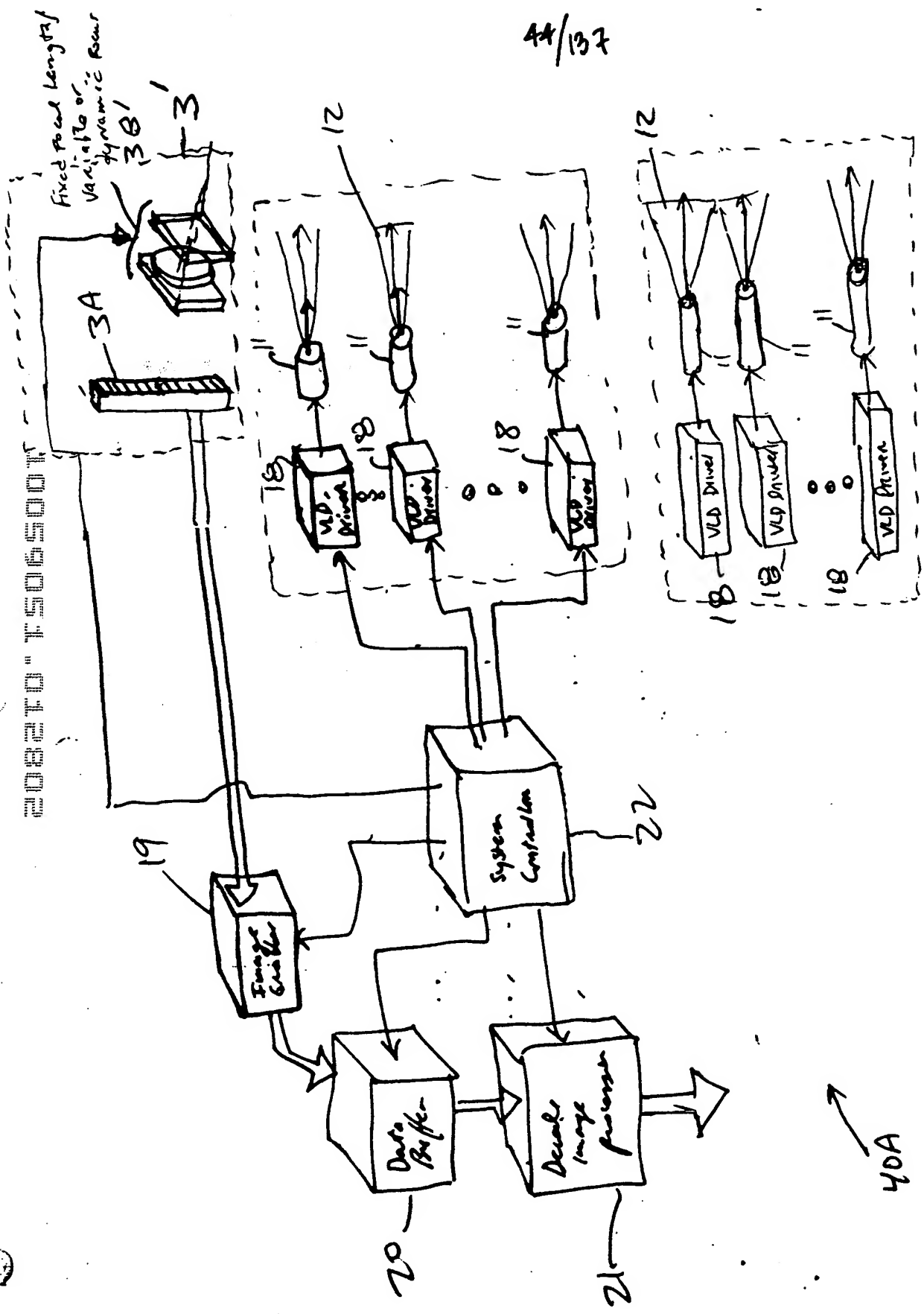


FIG. 2C1

20220" F506500F

45/137

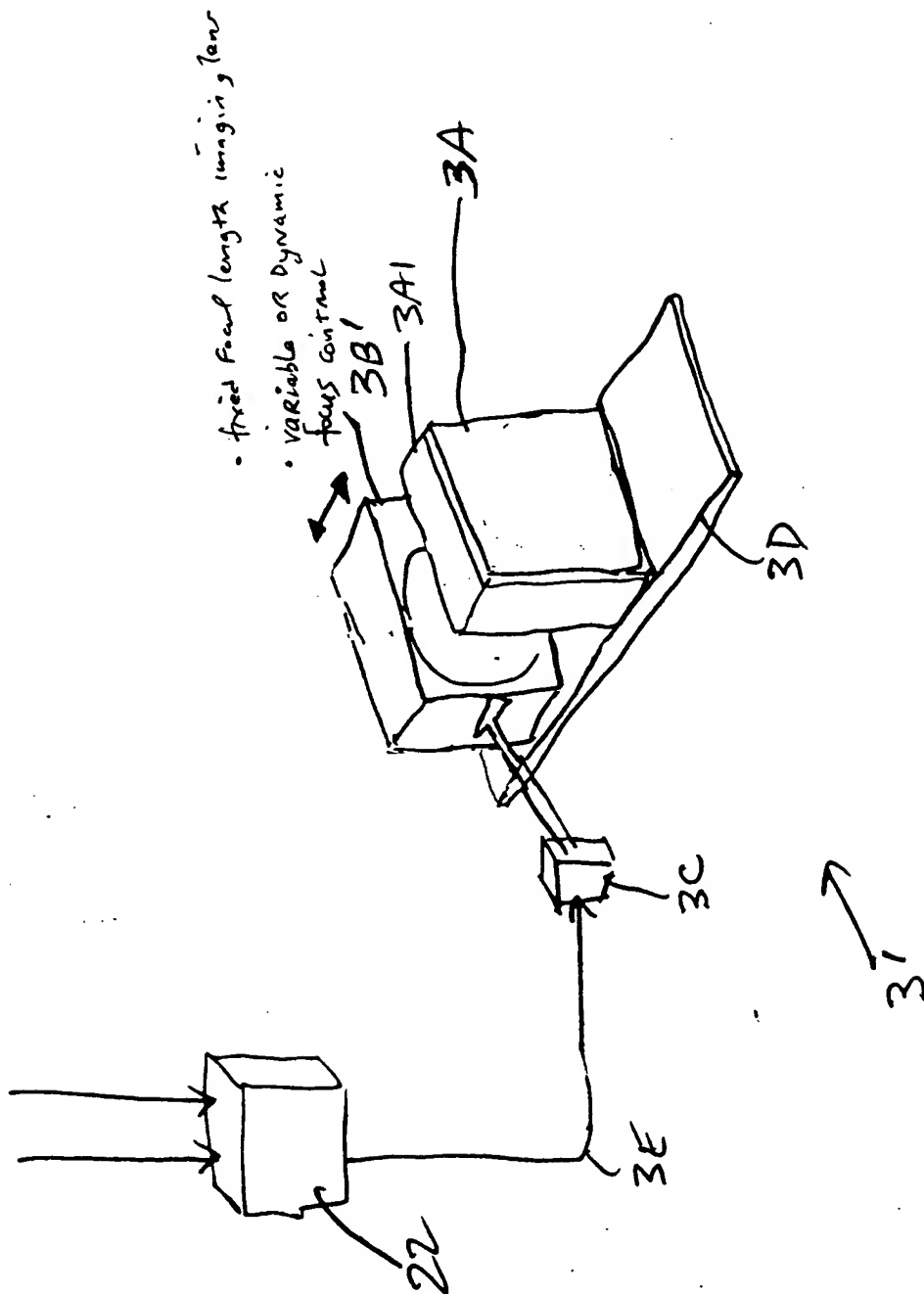


FIG. 2C2

46/138

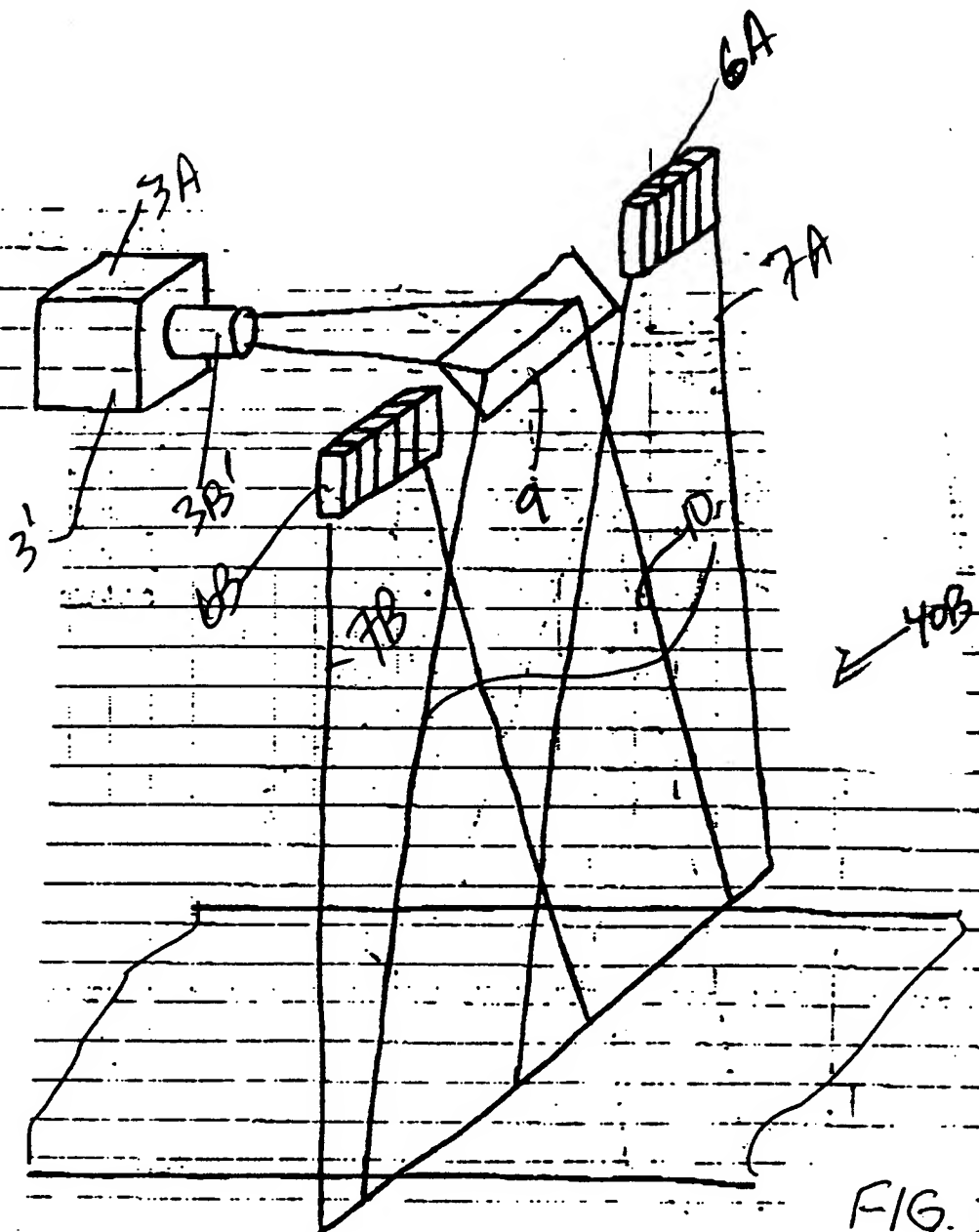


FIG. 2D1



208210" T506500T

18/137

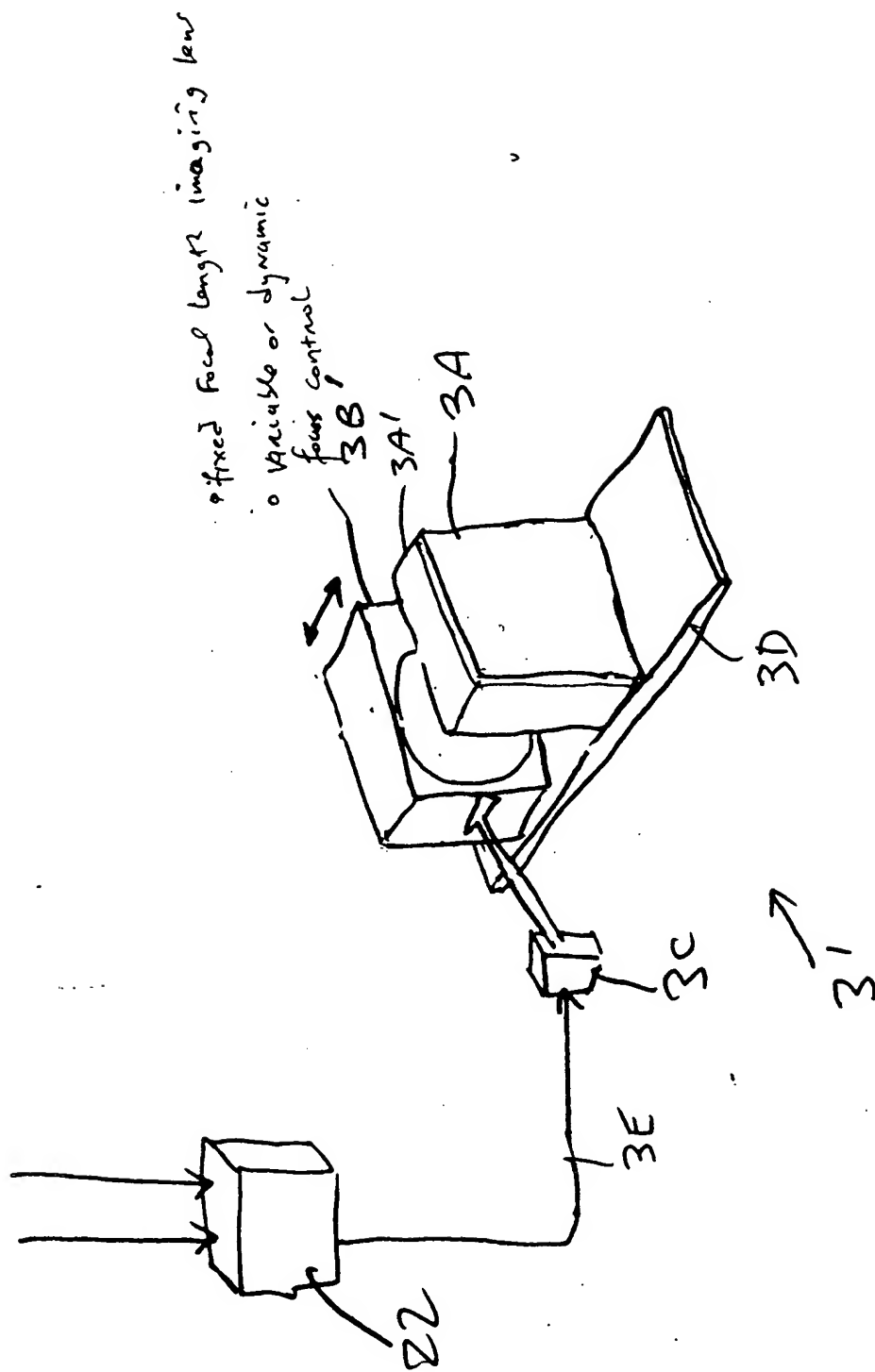


FIG. 2D3

49/137

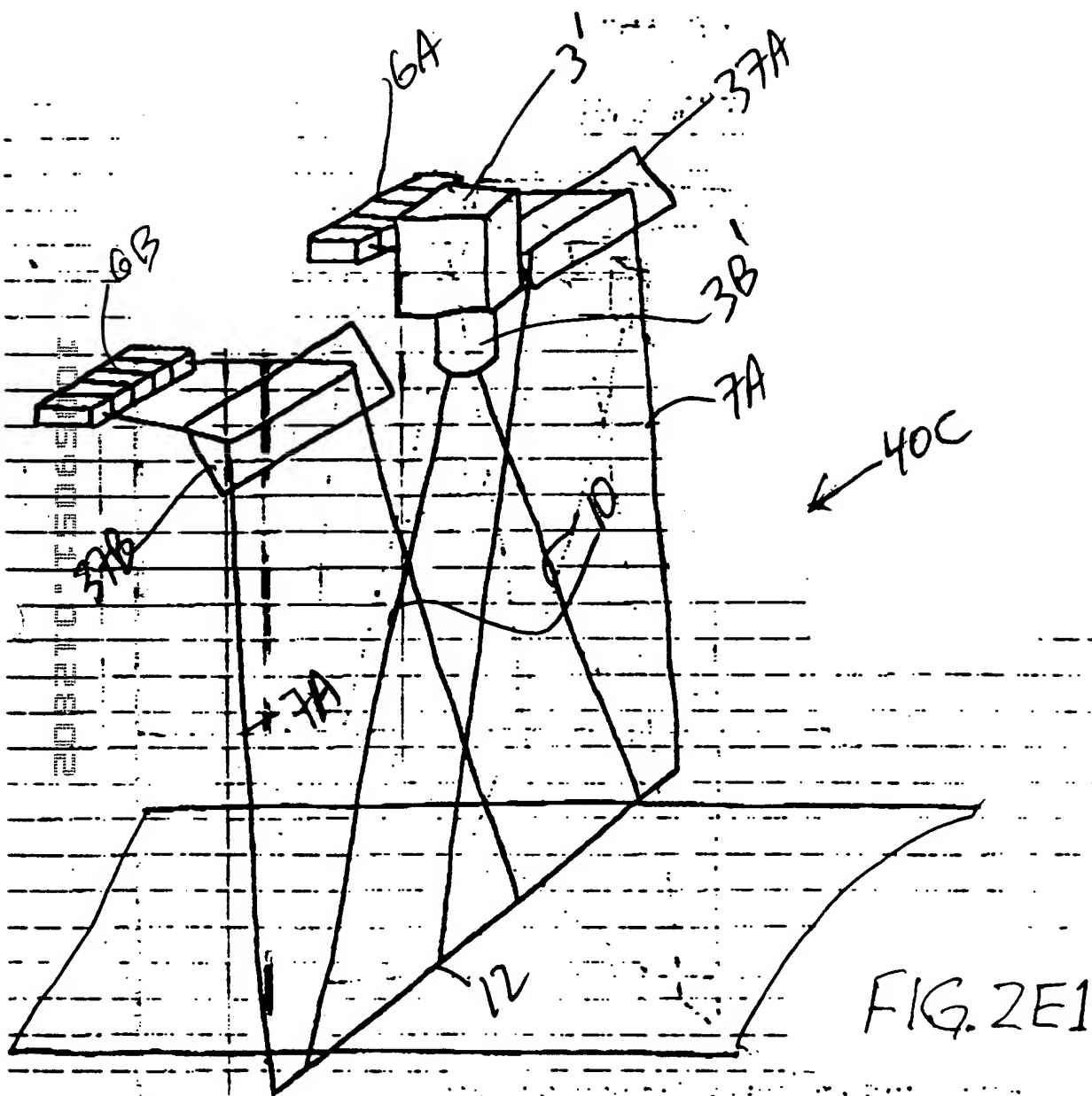


FIG. 2E1

202270 T506500T

51/137

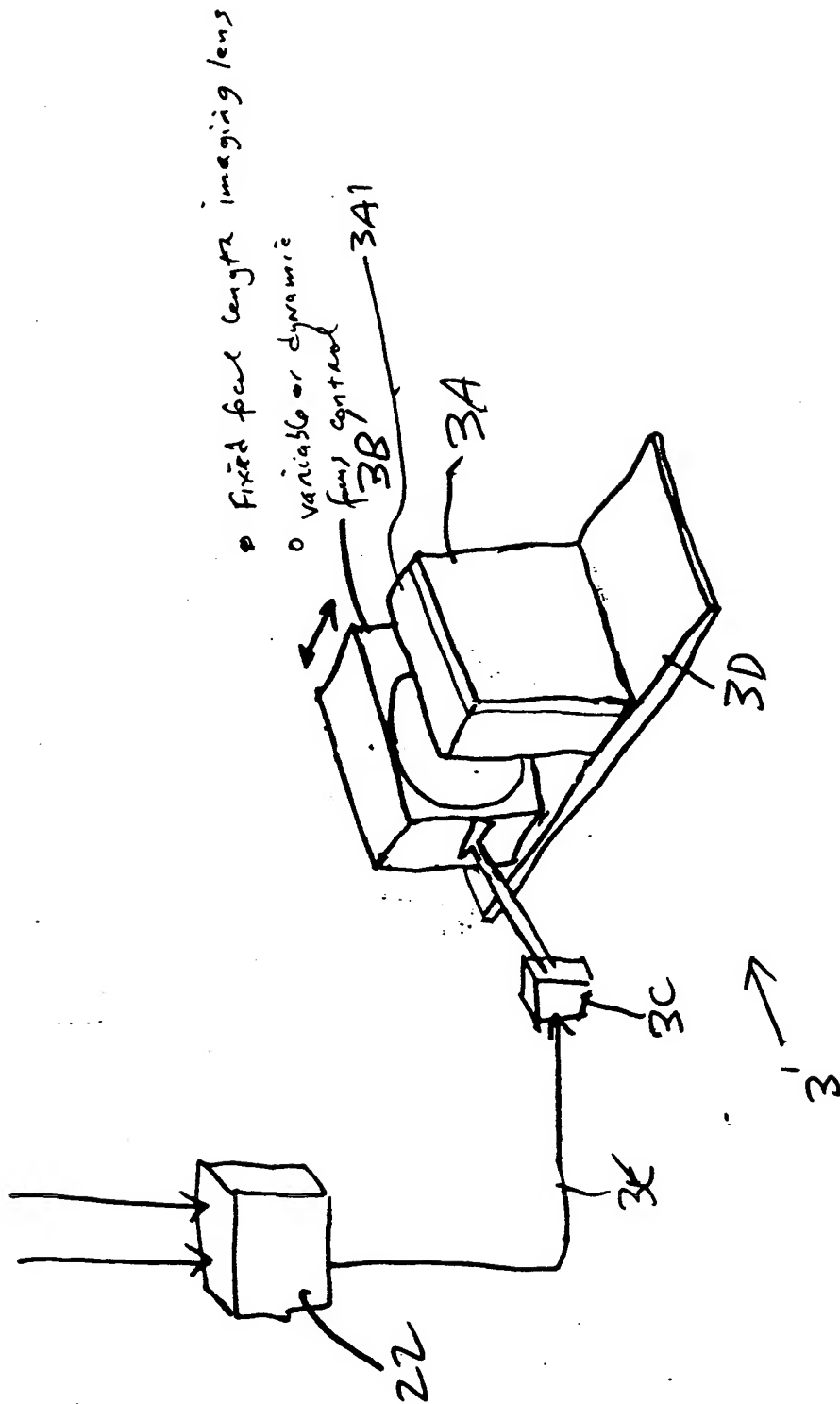


FIG. 2E3

52/137

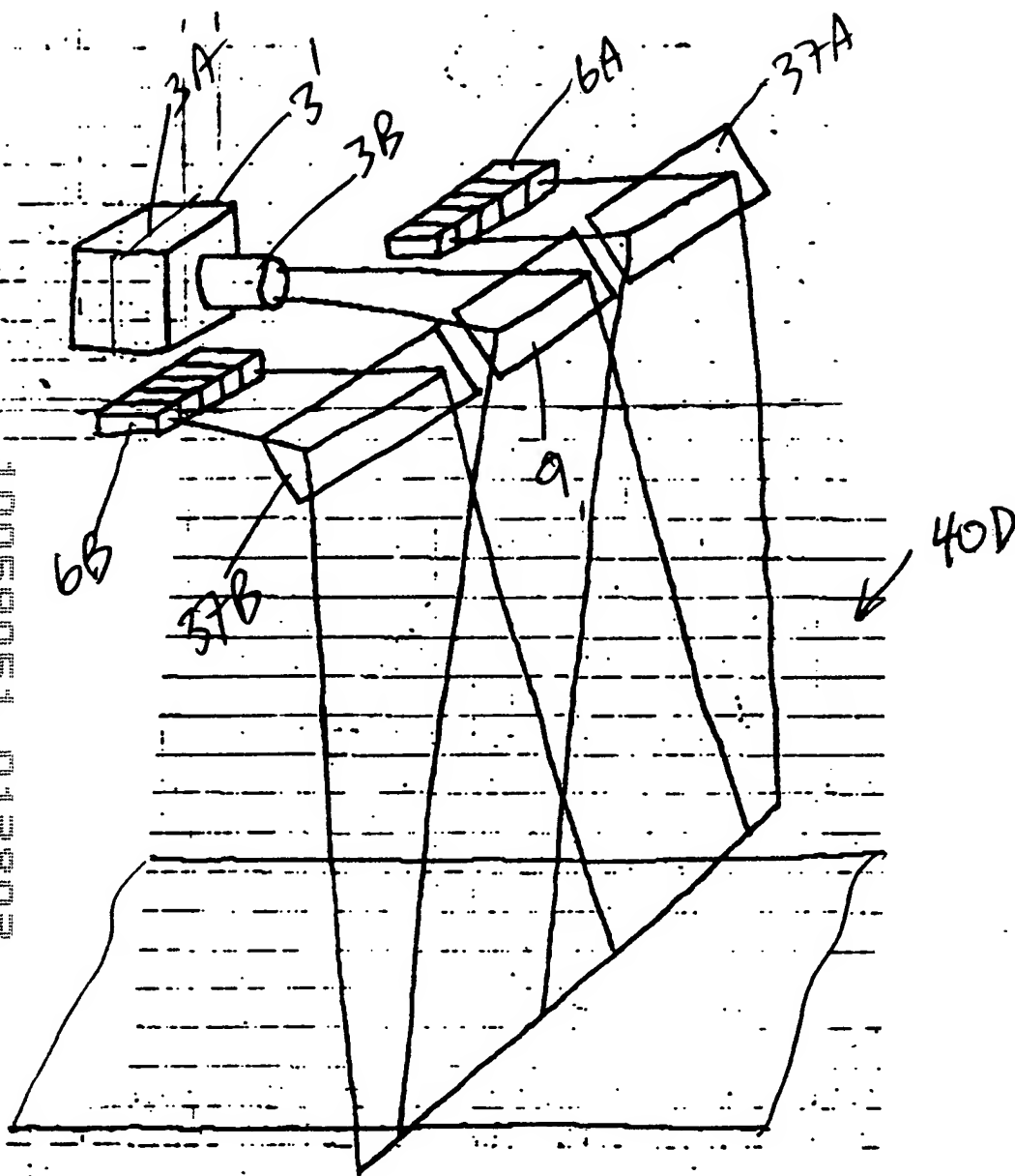


FIG. 2F1

202210" F5063001

53/137

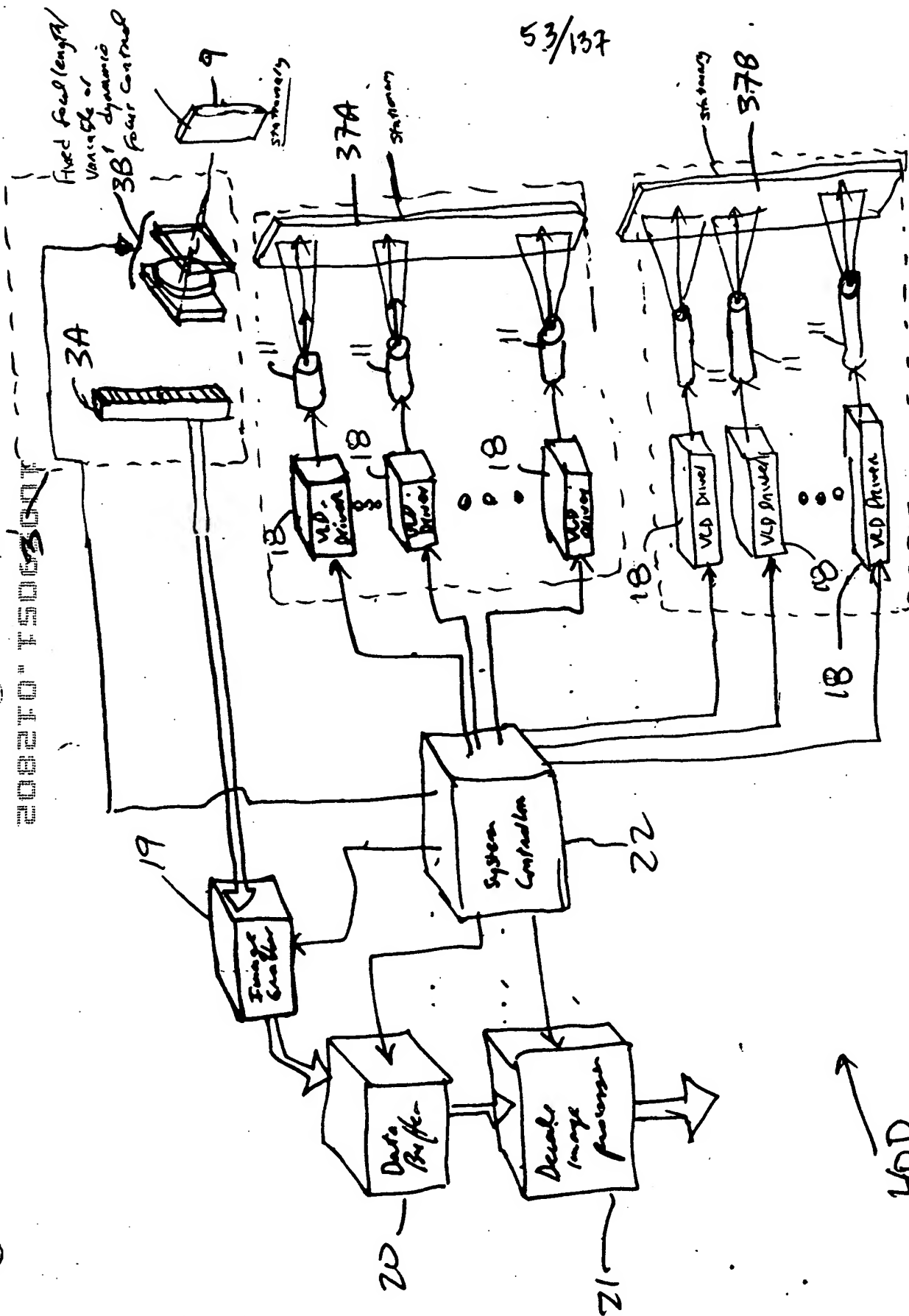


FIG. 2F2

208210-T506500F

54/137

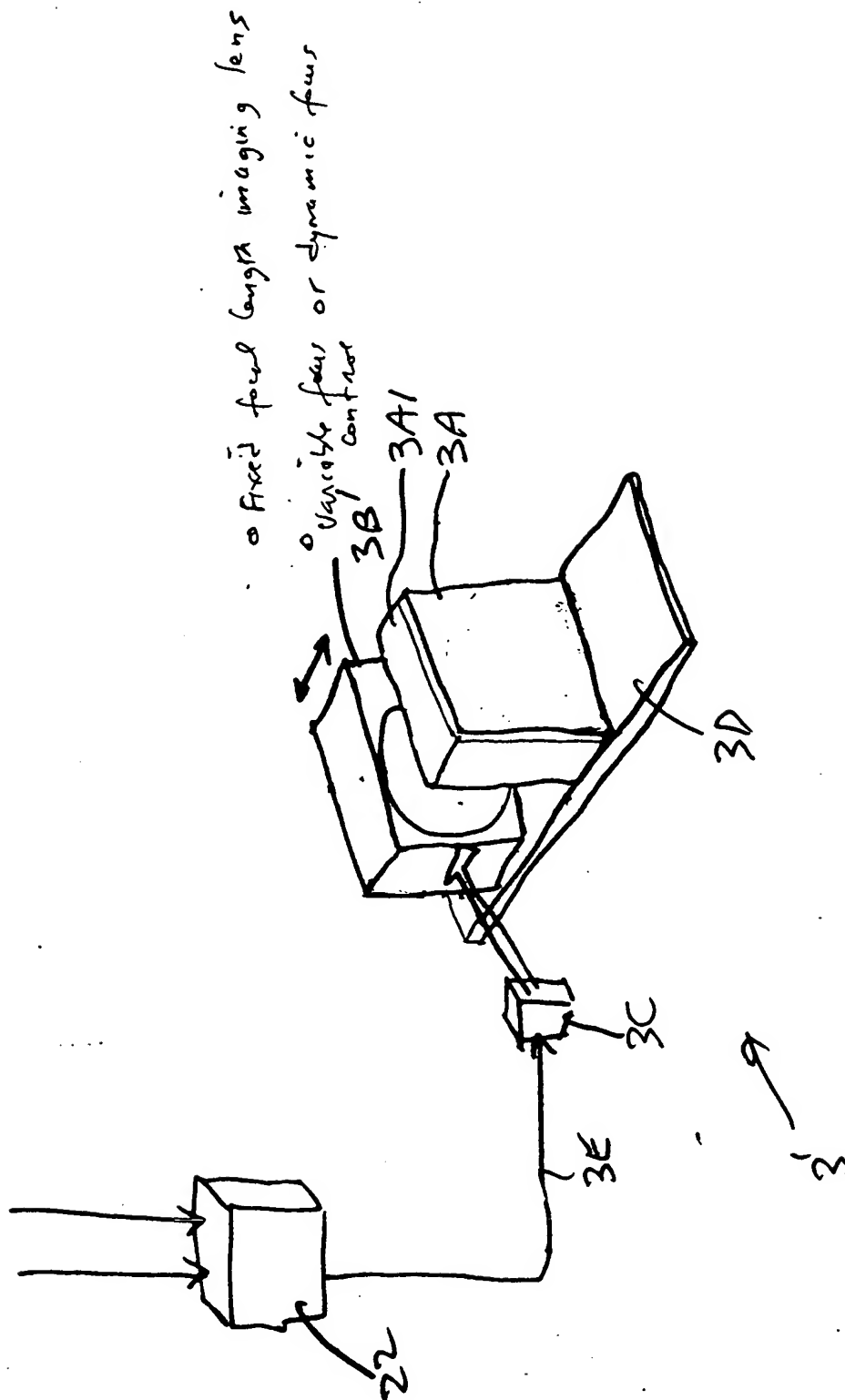


FIG. 2F3

55/137

208270" T506500T

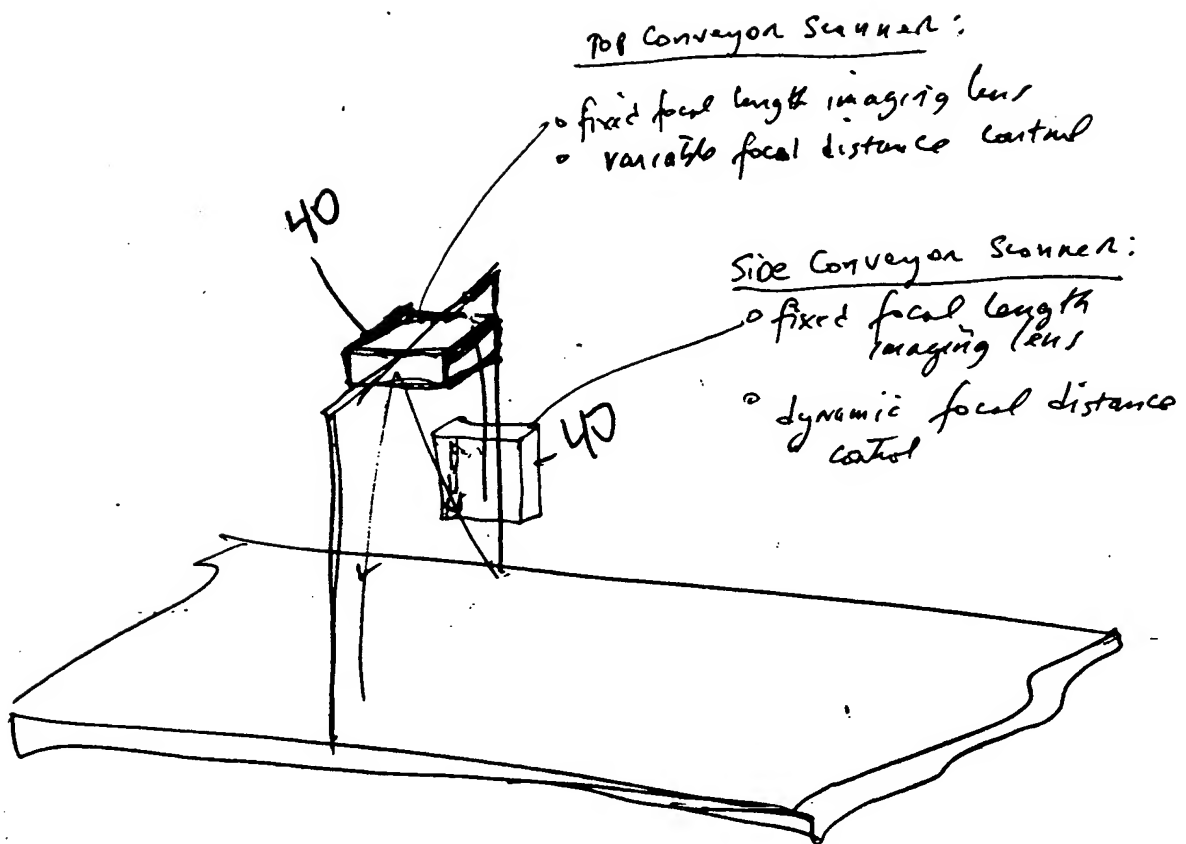
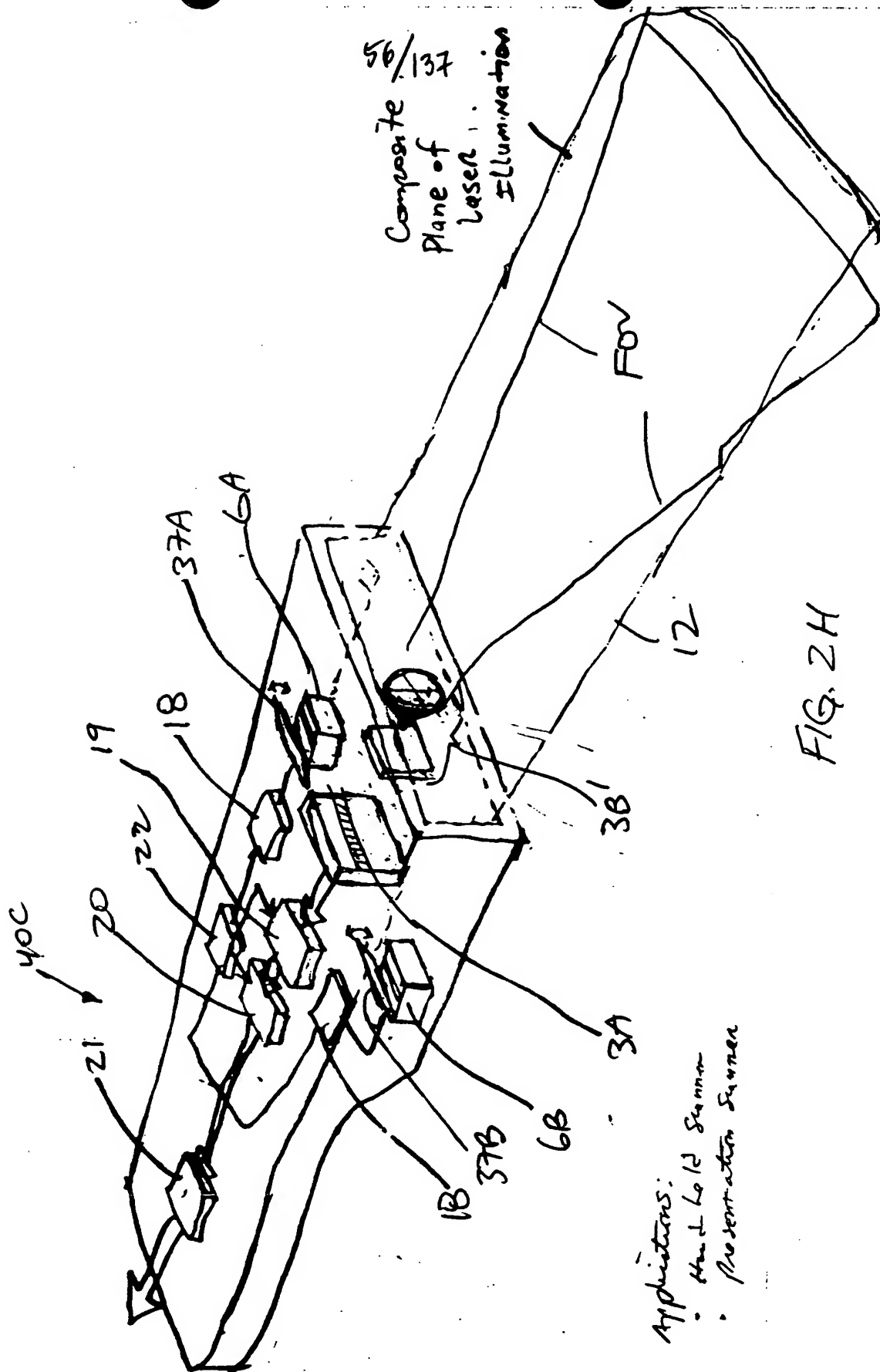


FIG. 2G



Applications:

- Hand Held Scanner
- Presentation Scanner

2082FO"FS06S00F

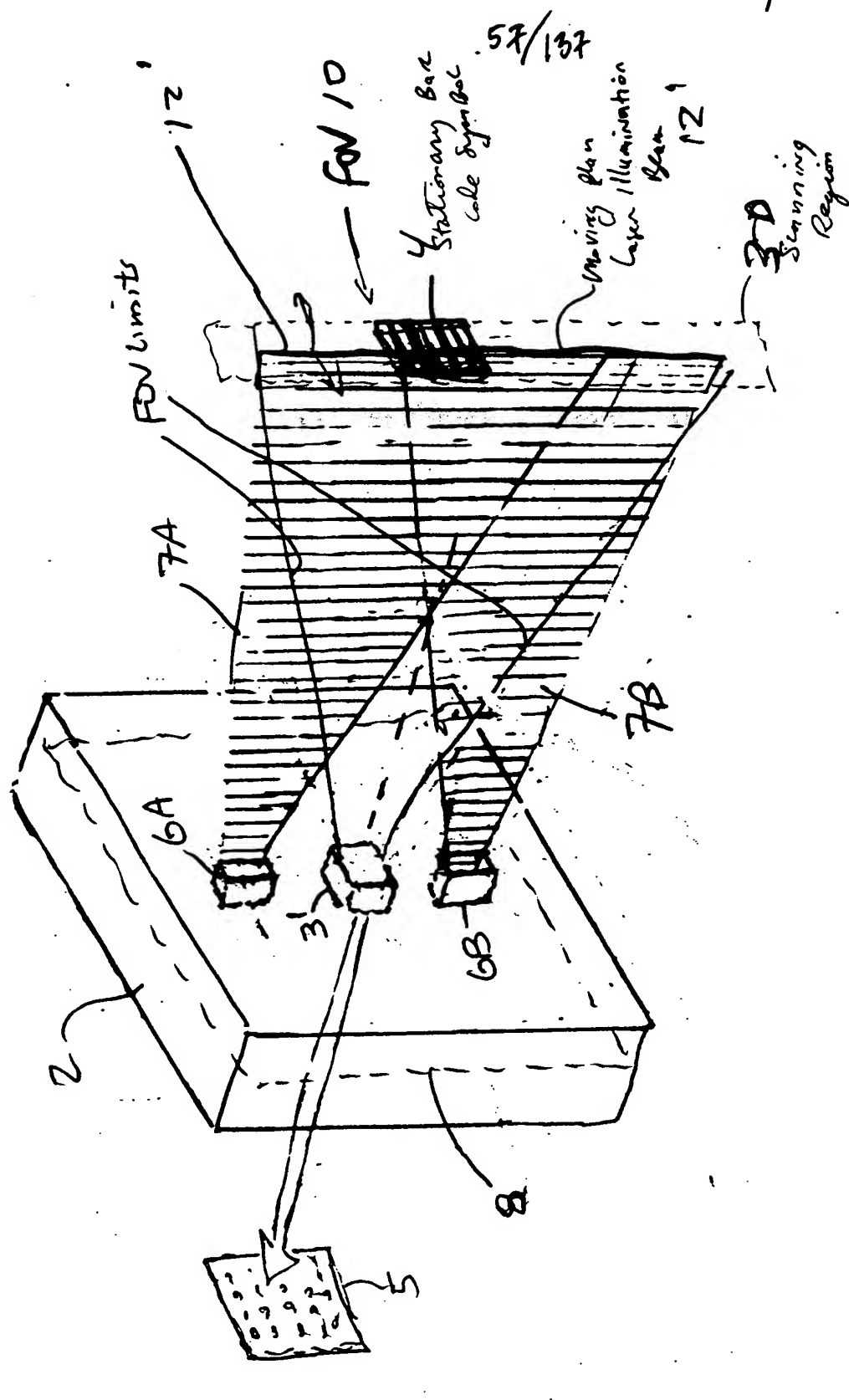


FIG. 2II

58/137

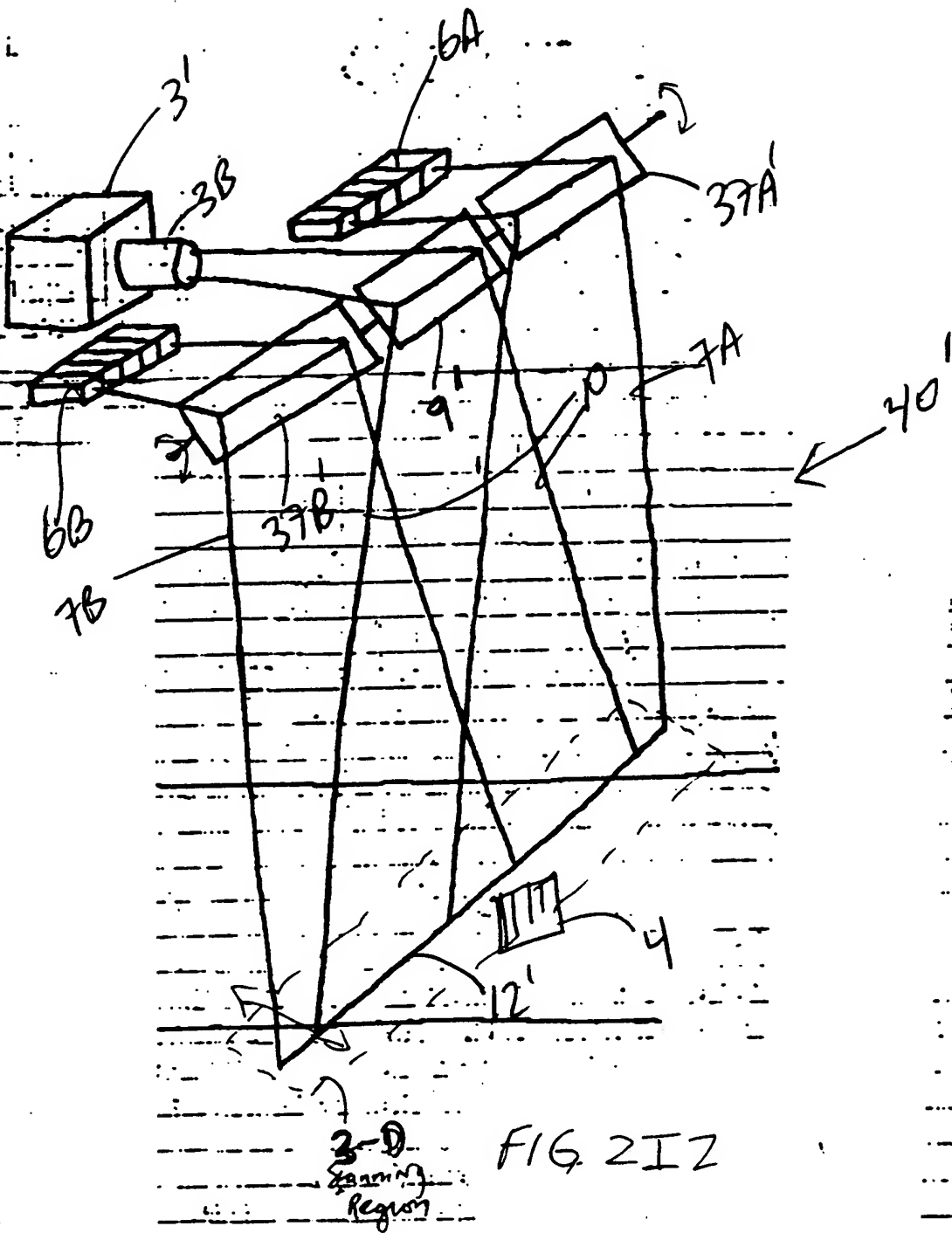


FIG 2I2

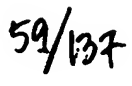


FIG. 213



2082FO"TS06S00T

2082FO"TS06S00T

60/137

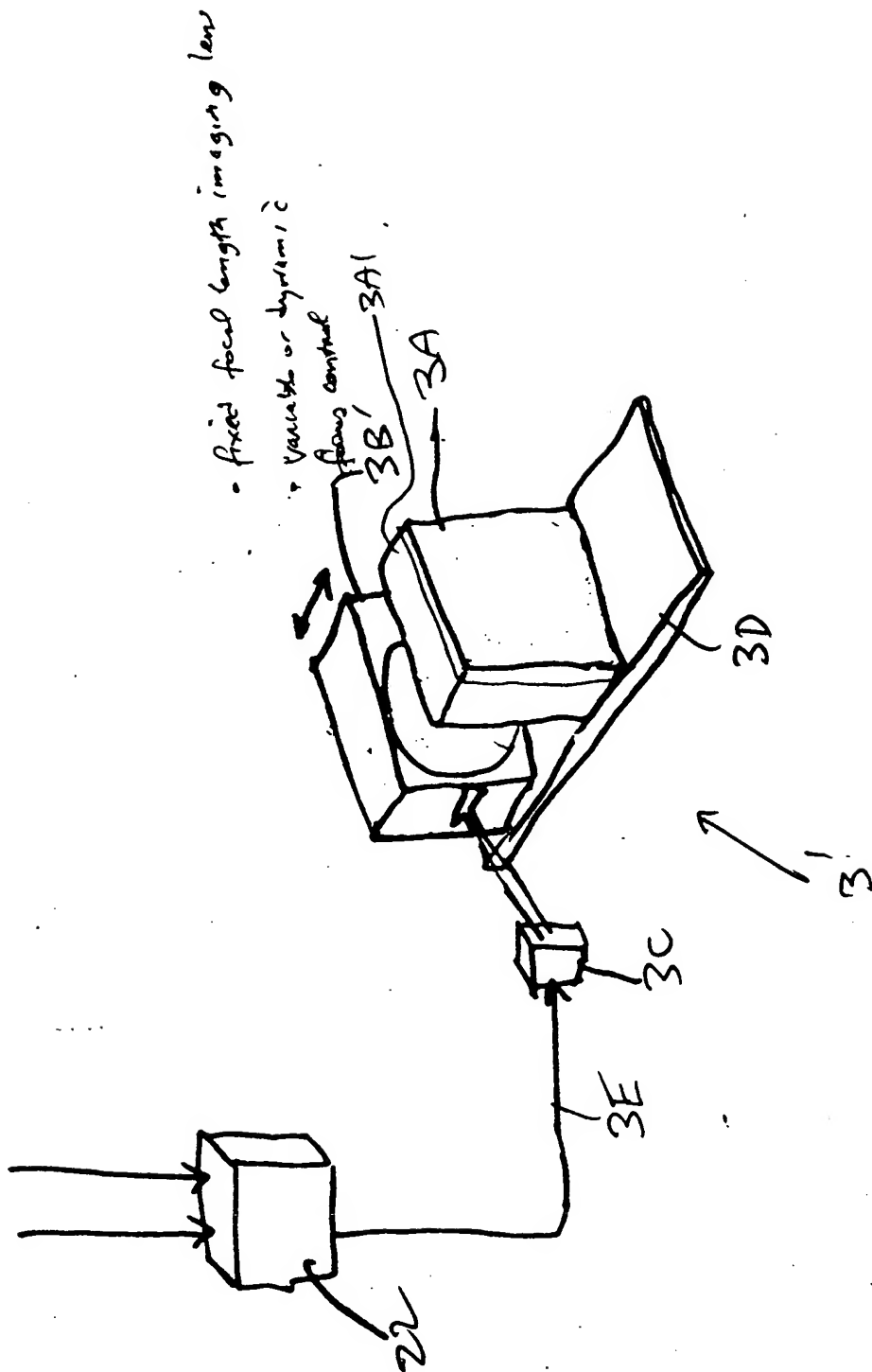


FIG. 2I4

61/137

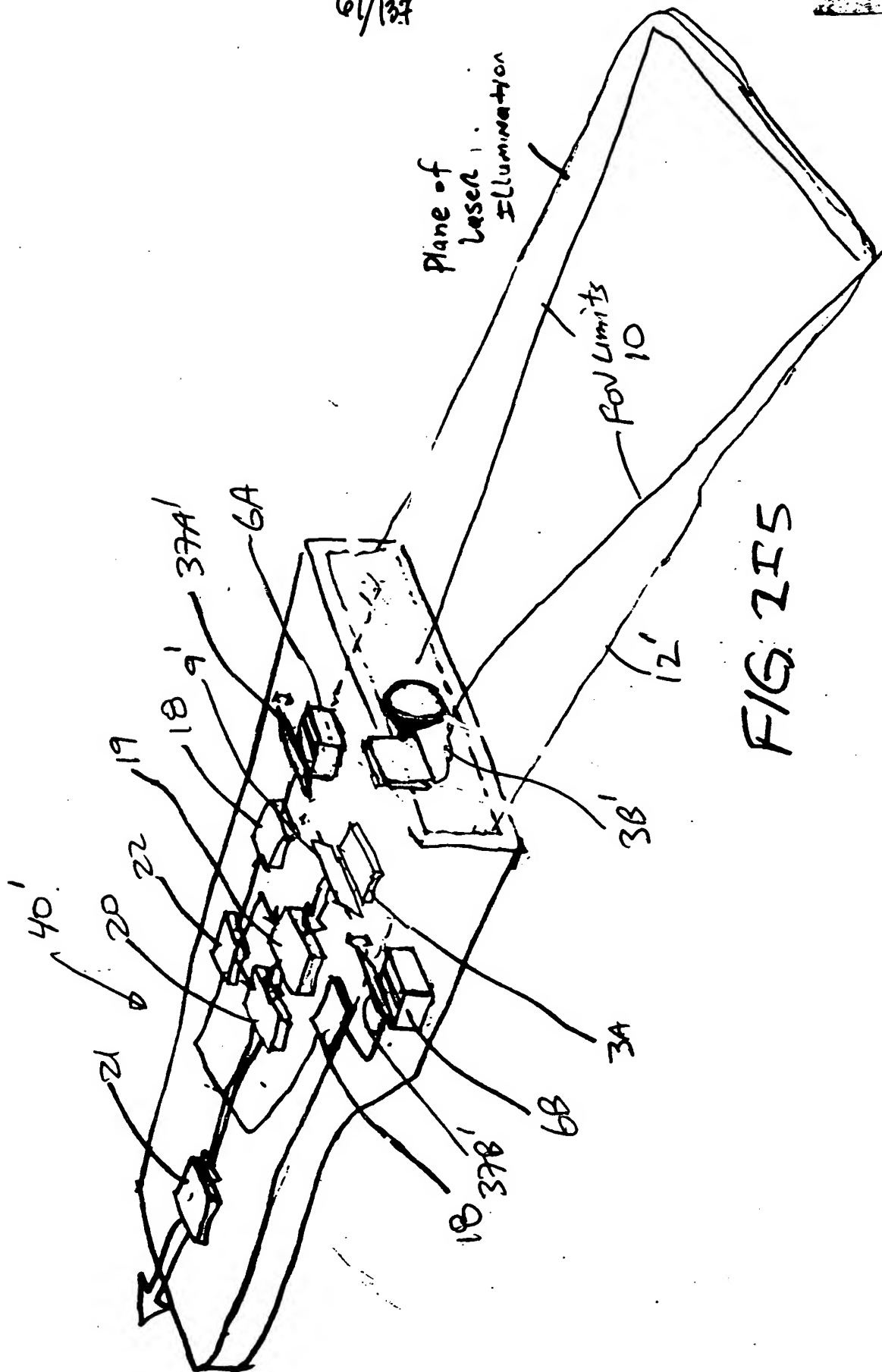


FIG. 215

62/137

208270" T506500T

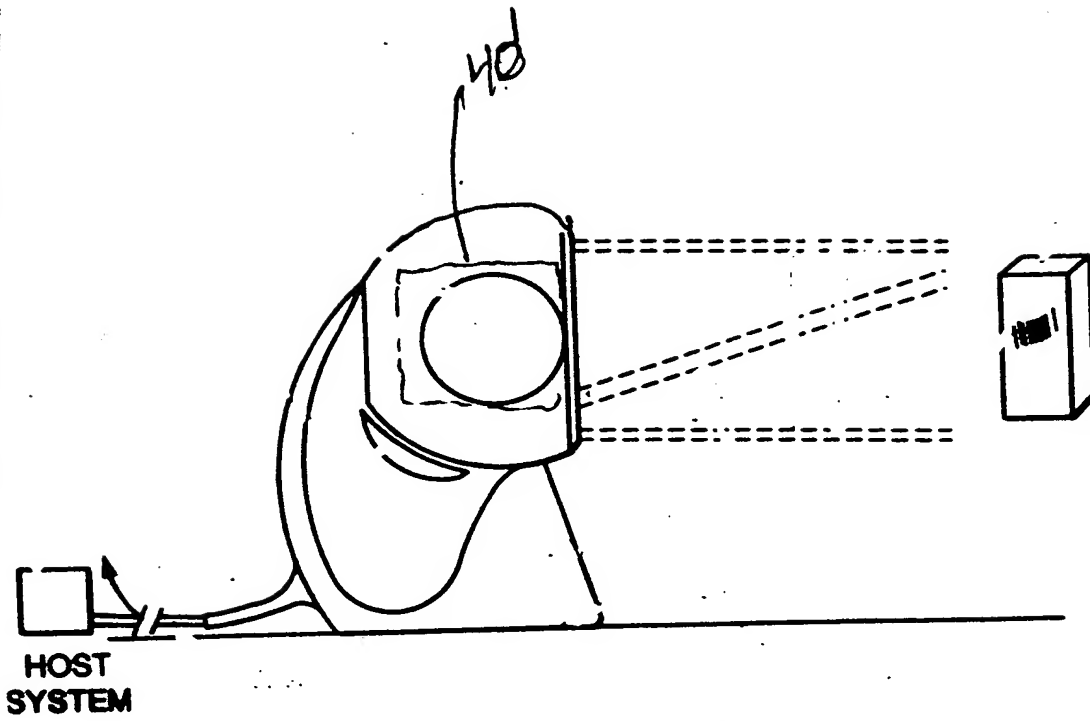


FIG. 2I6

208210 T506500F

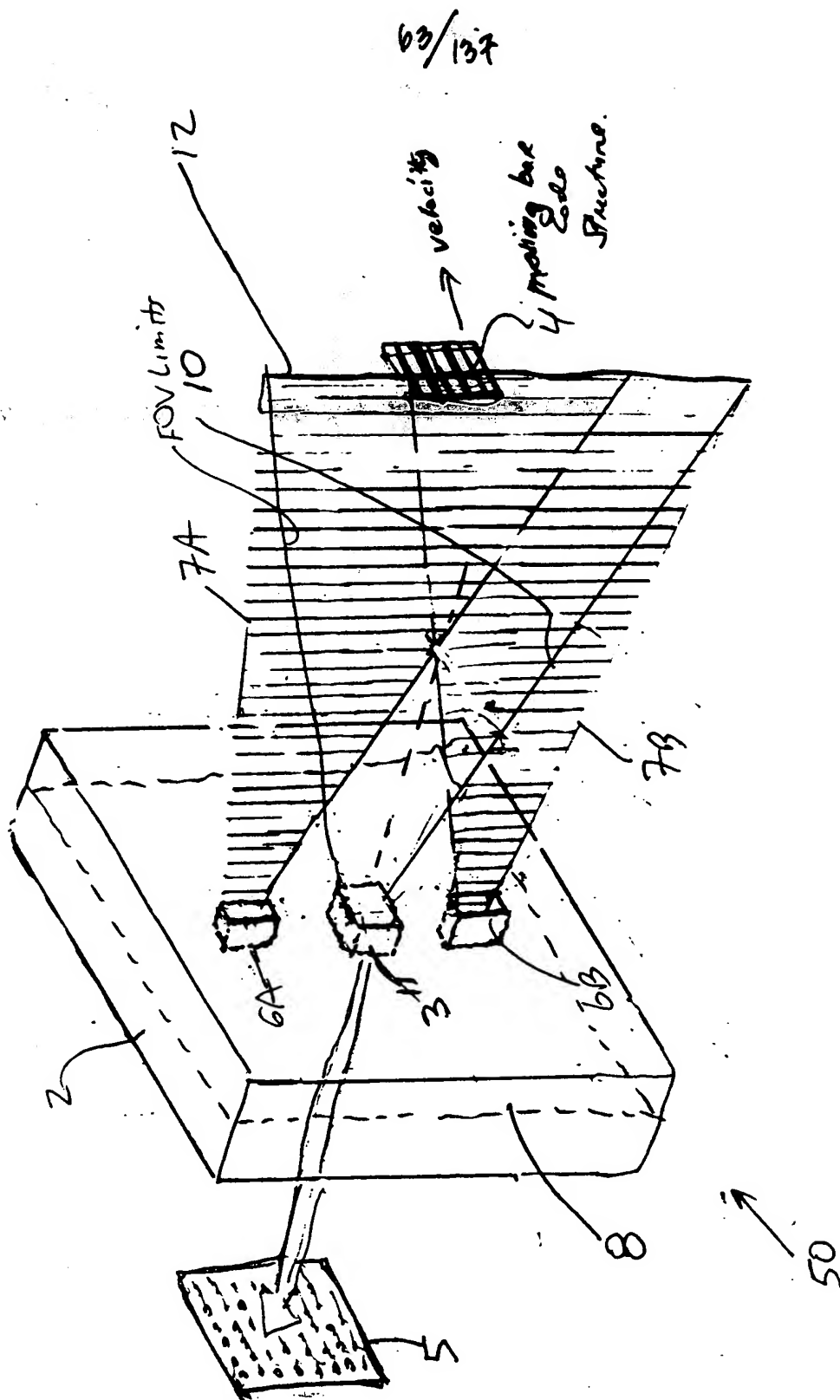


FIG 3A

64/137

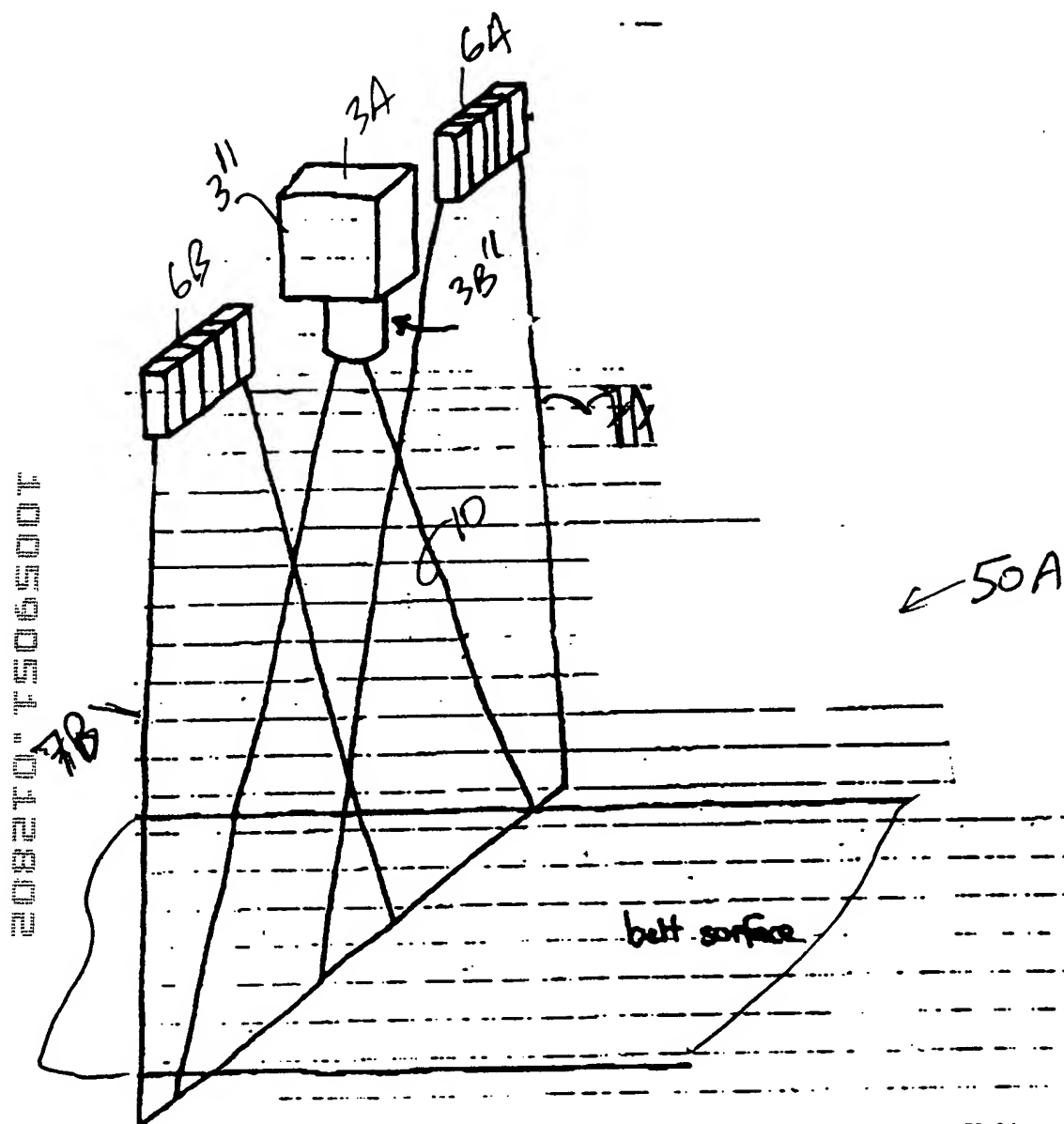


FIG. 3B1

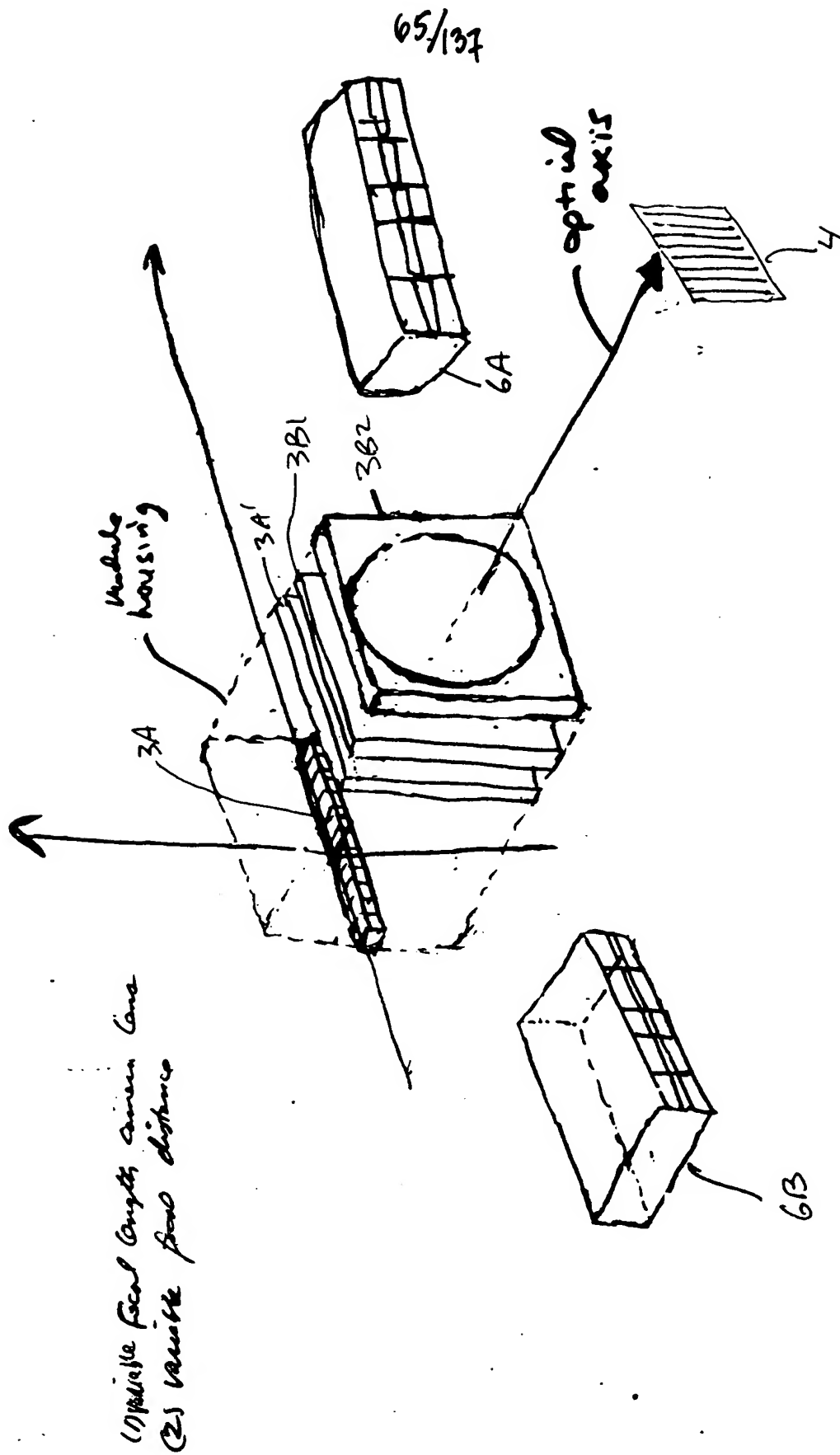


FIG. 3B2

208270" T506SDDT

66/137

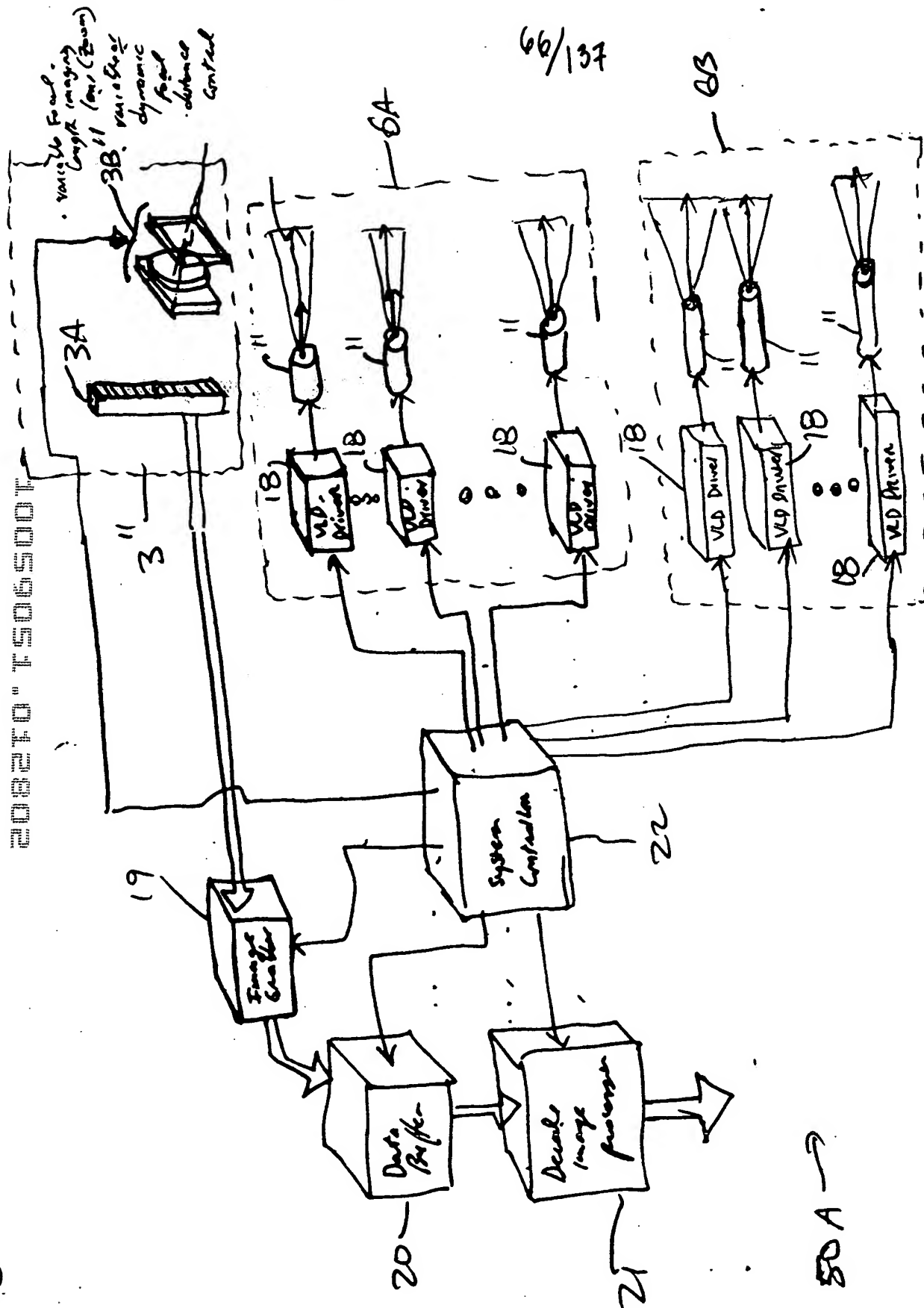
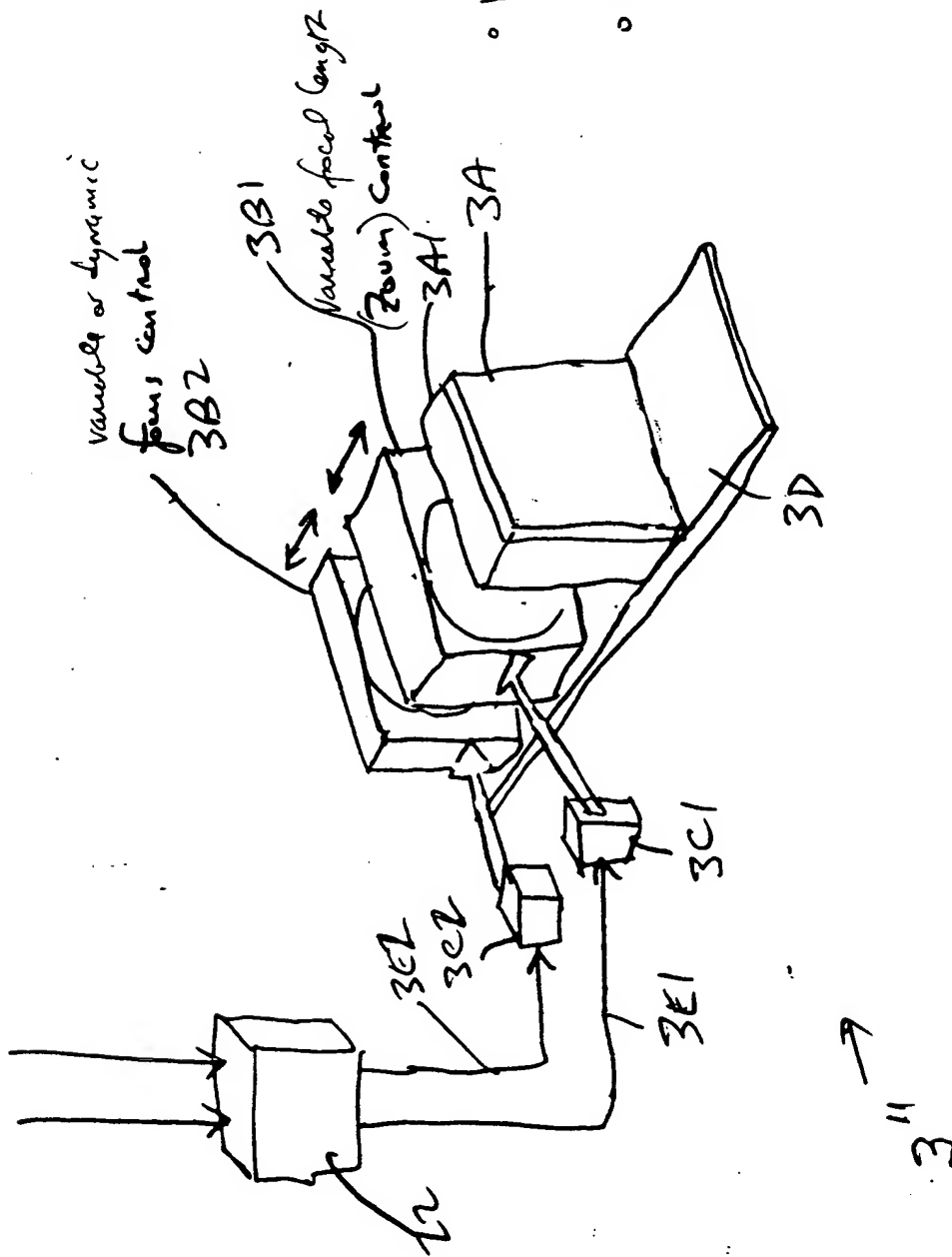


FIG. 3C1

208210" T506500T



67/107

- Variable focal length lenses lens
- Variable focal distance

FIG. 3CZ

208210" T506500T

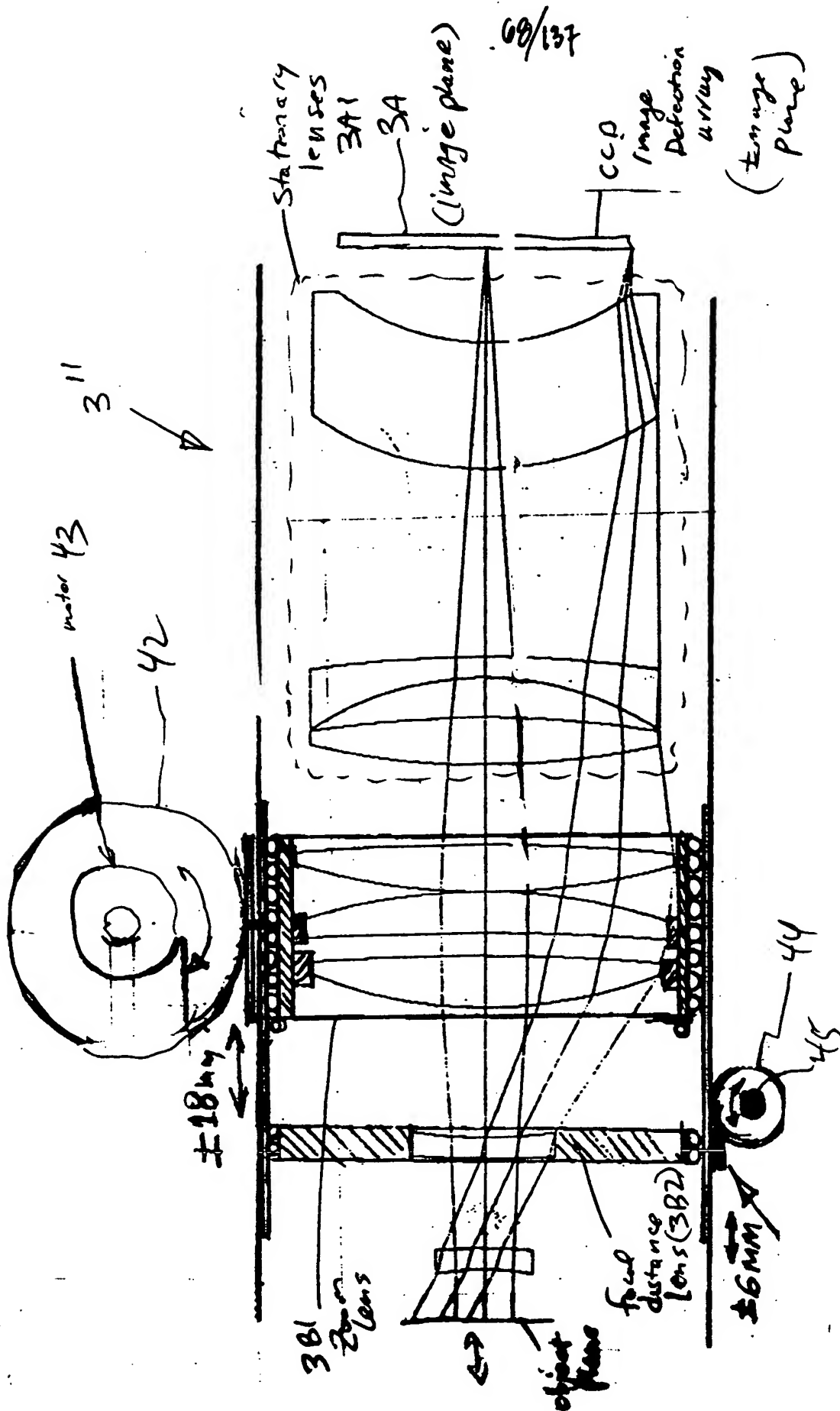


FIG. 3D

69/137

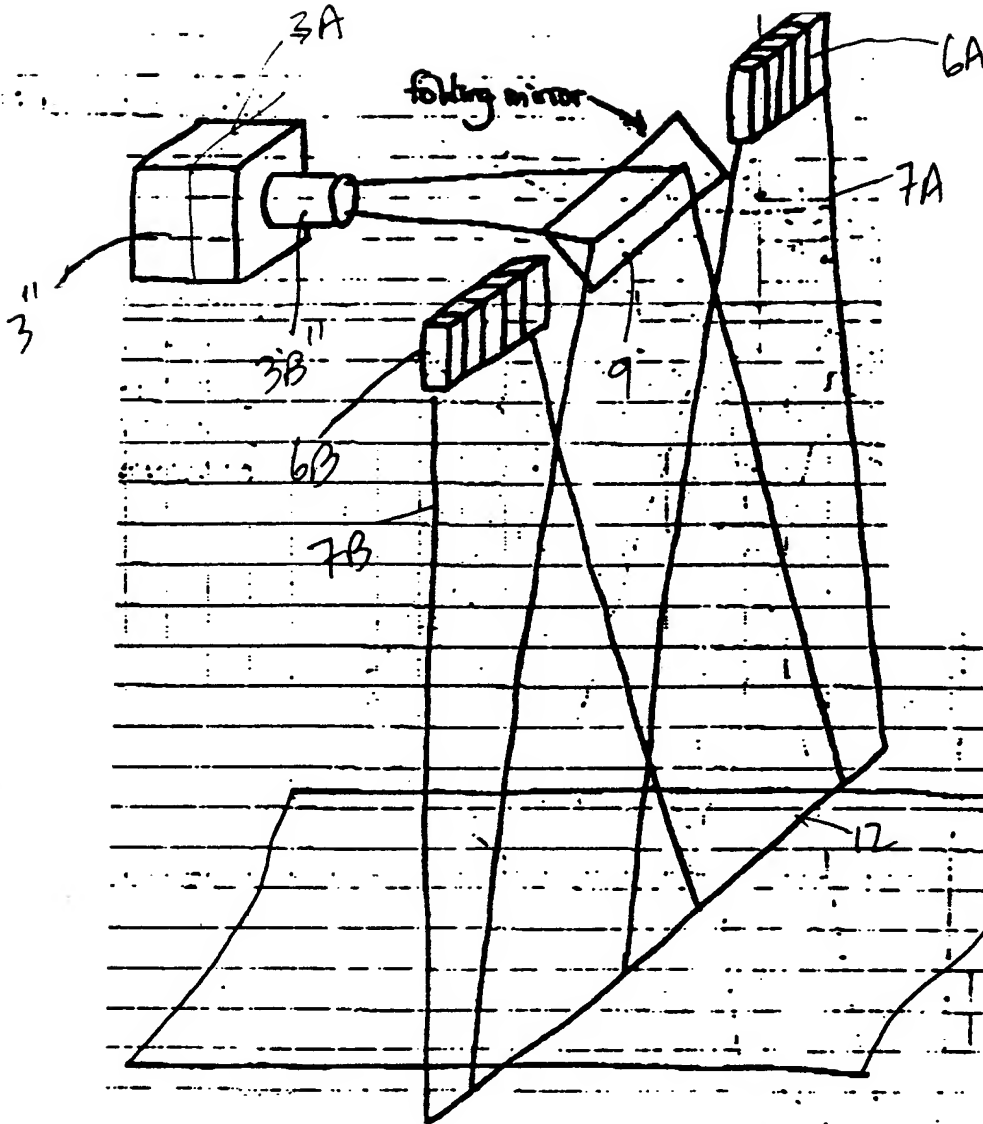
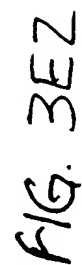


FIG 3E1

70/137



50B →

208270" F506500T

71/137

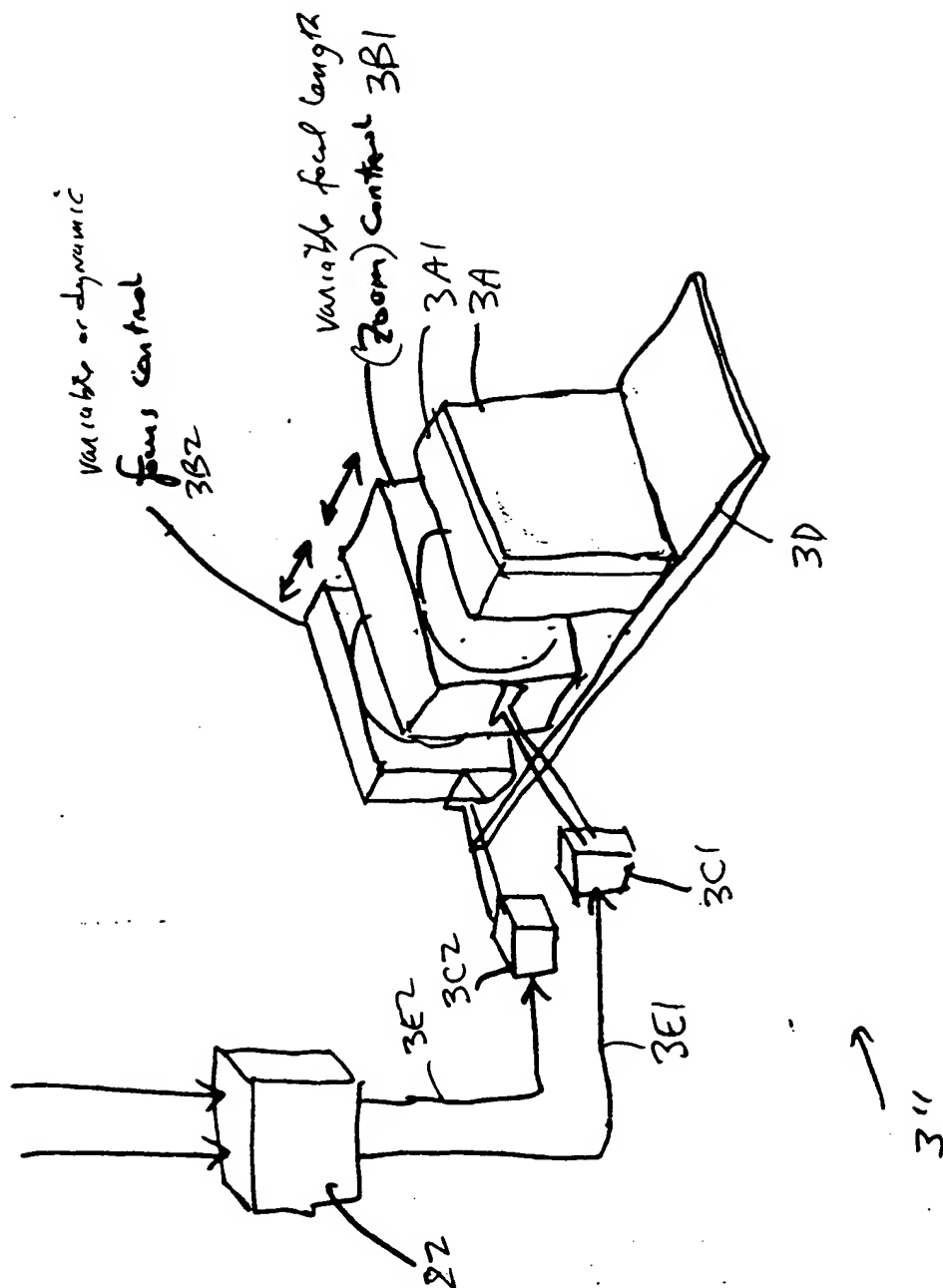
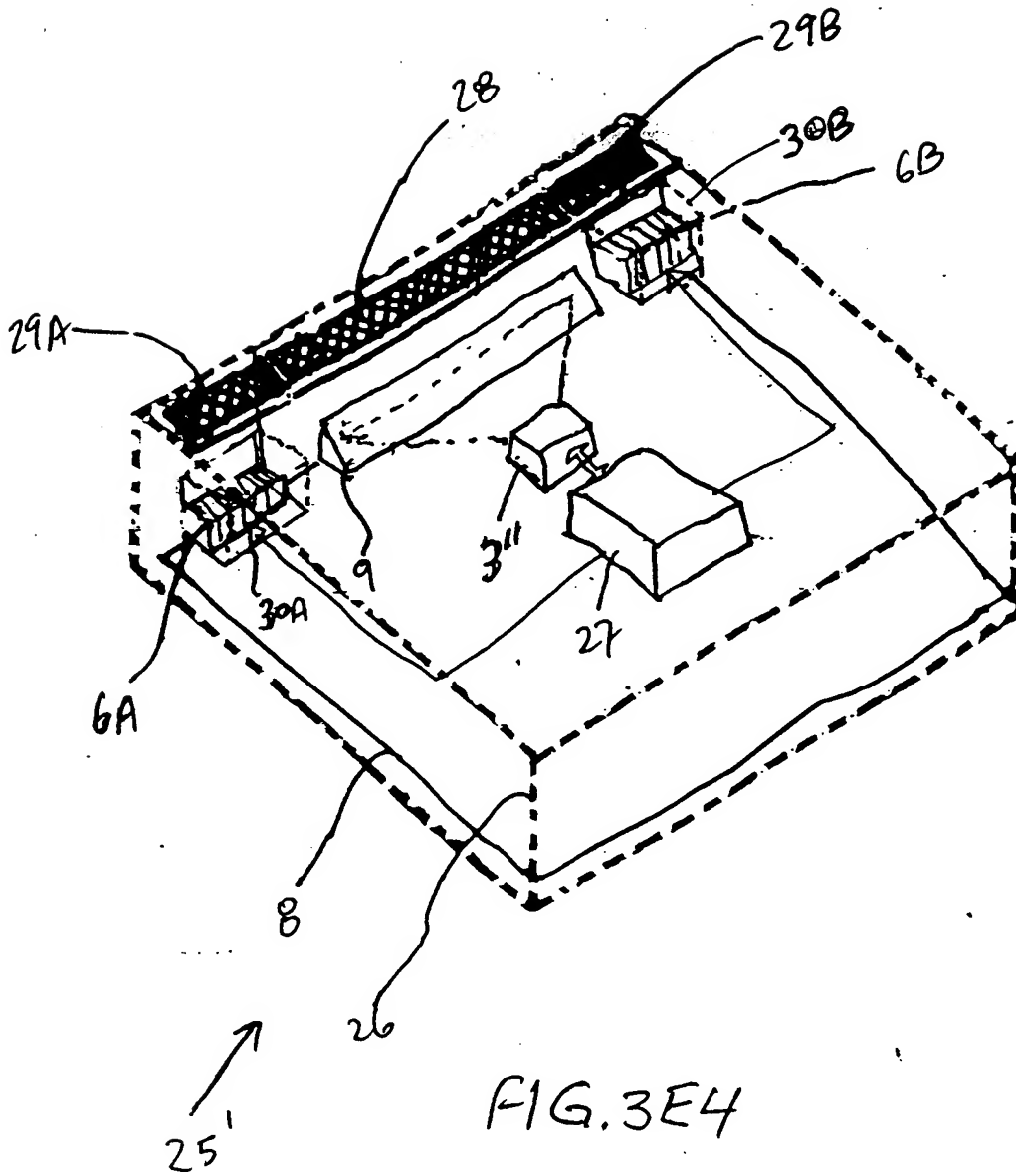


FIG. 3E3

72/137



10059051.012802

73/137

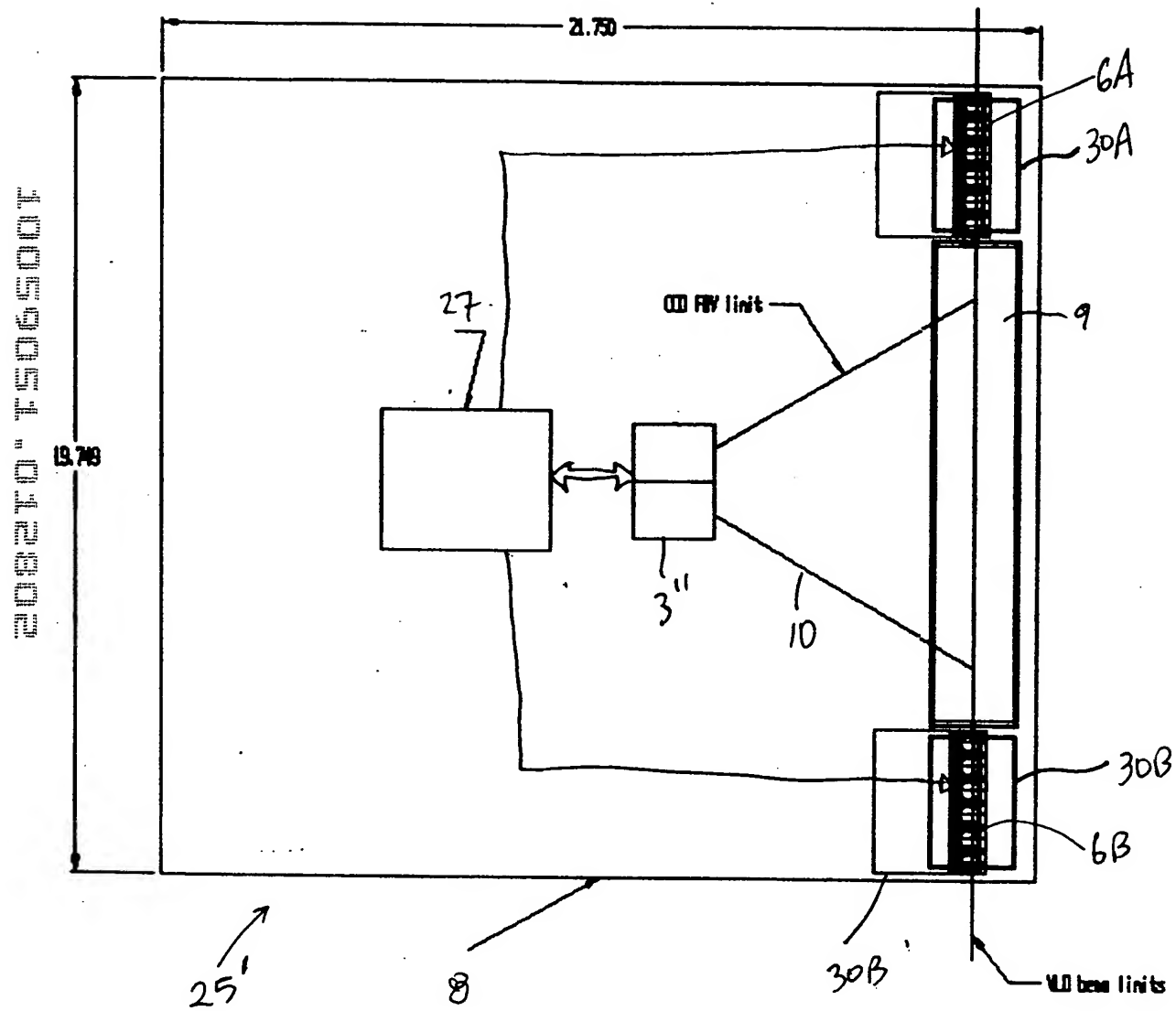


FIG. 3E5

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FIG. 3E6

75/107

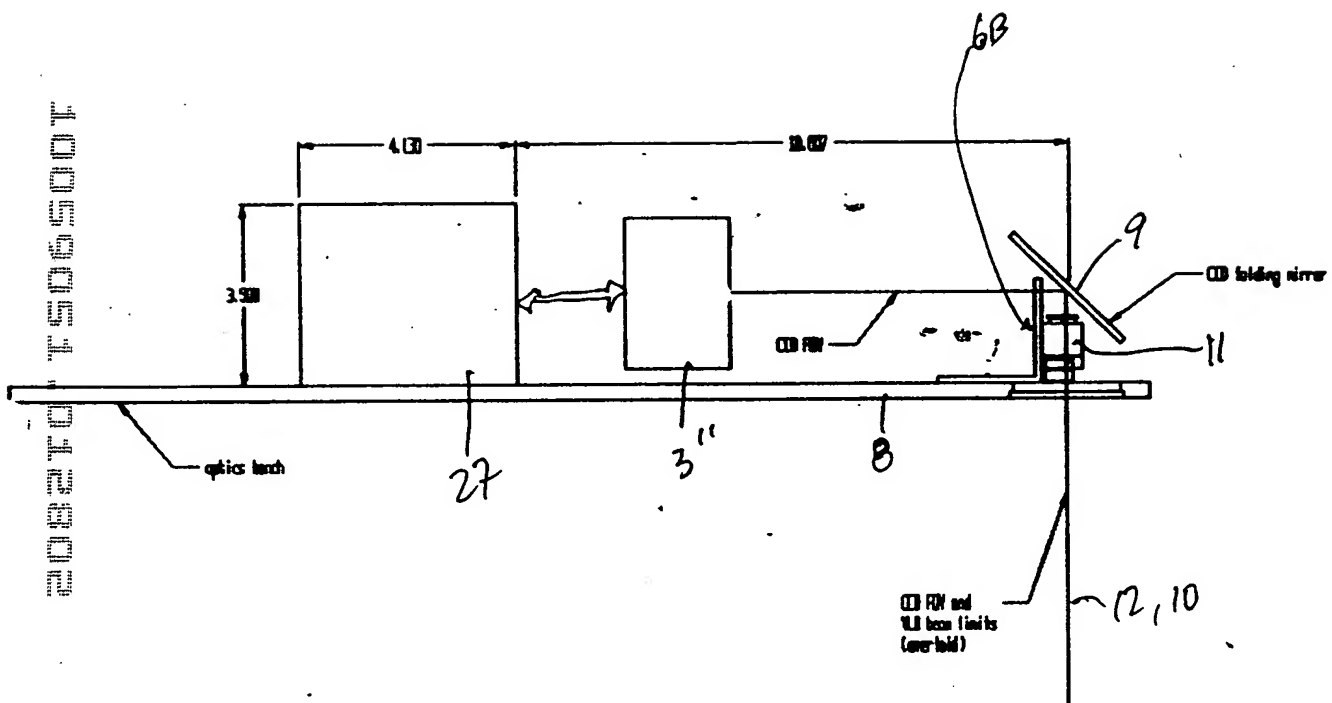


FIG. 3E7

76/137

*variable FOV

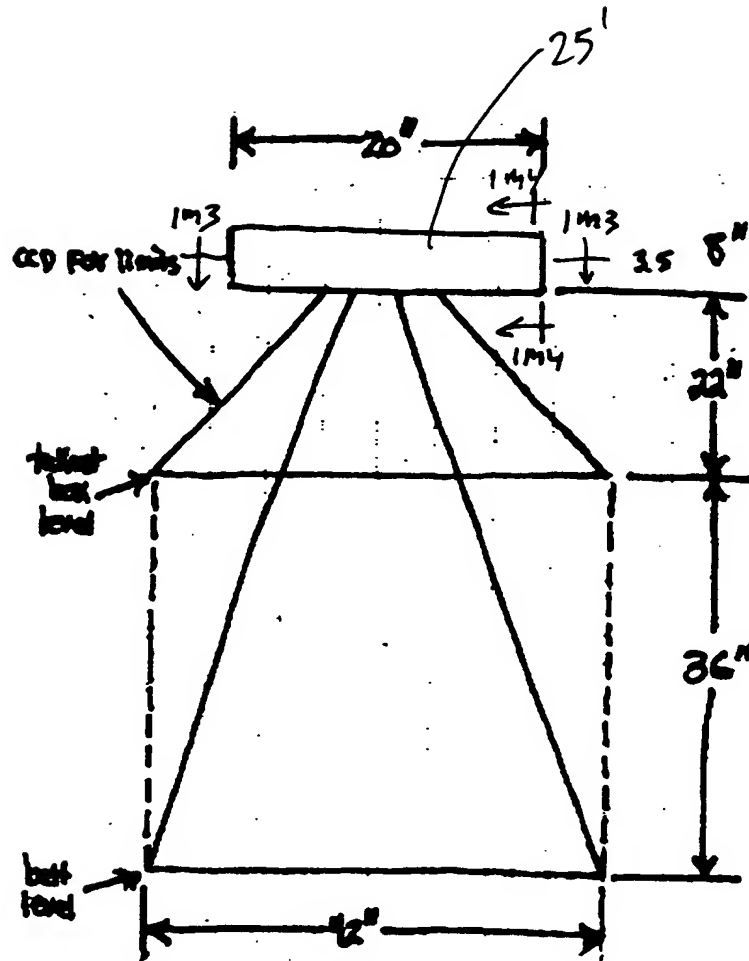


FIG. 3E8

208210" F5065001

77/137

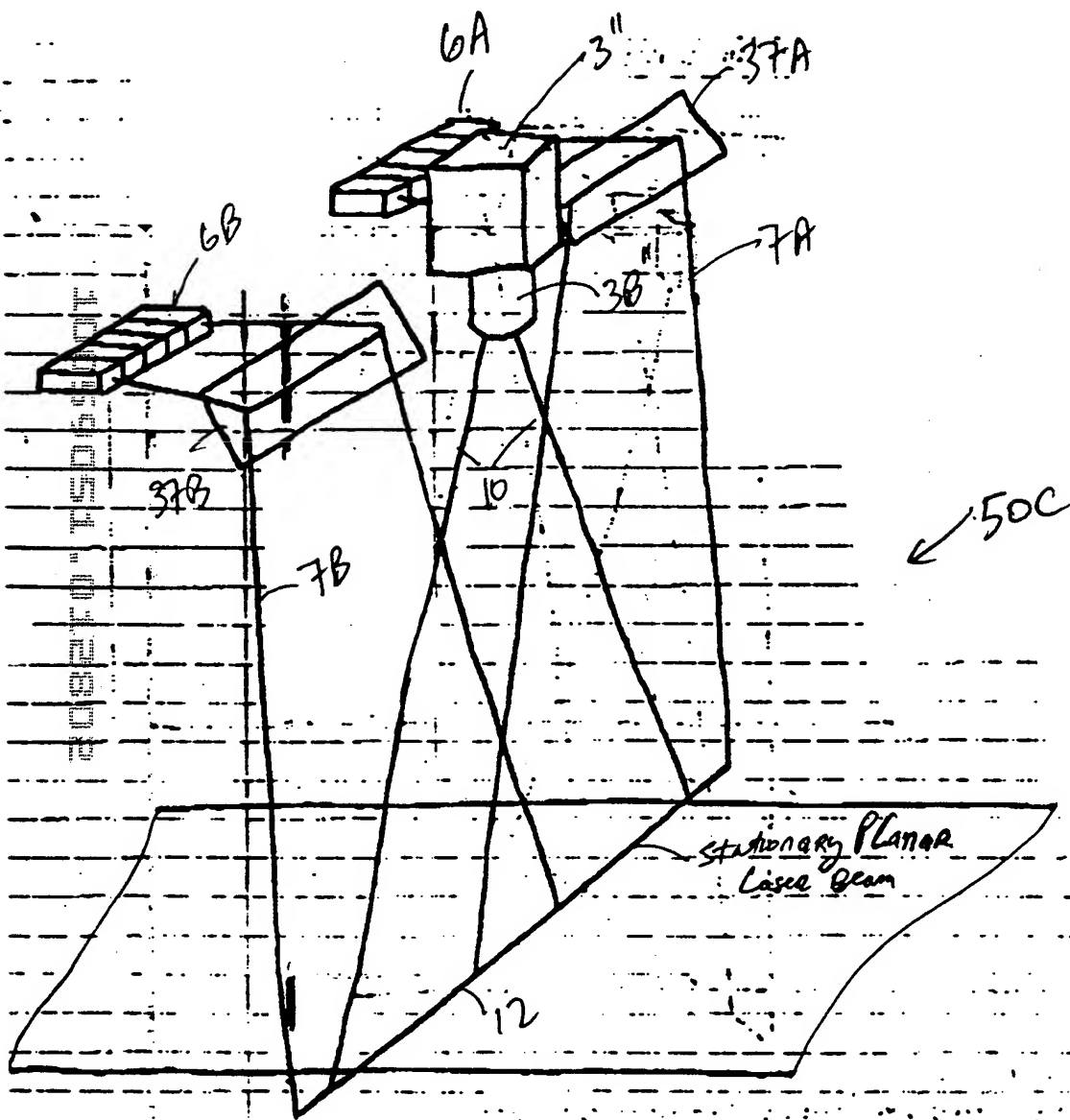


FIG 3F1

203210" T506500T

78/137

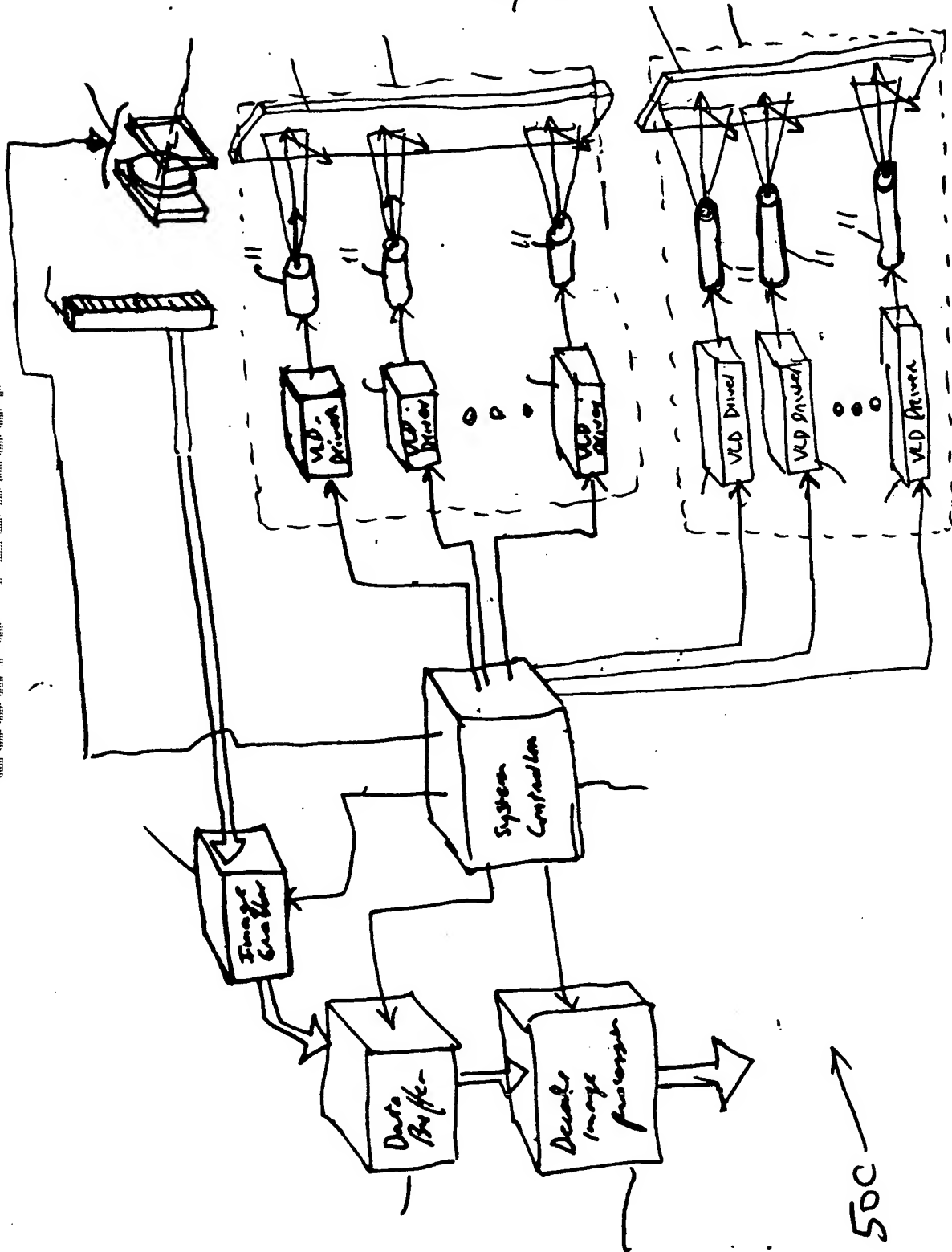


FIG. 3F2

208210" F506500T

79/137

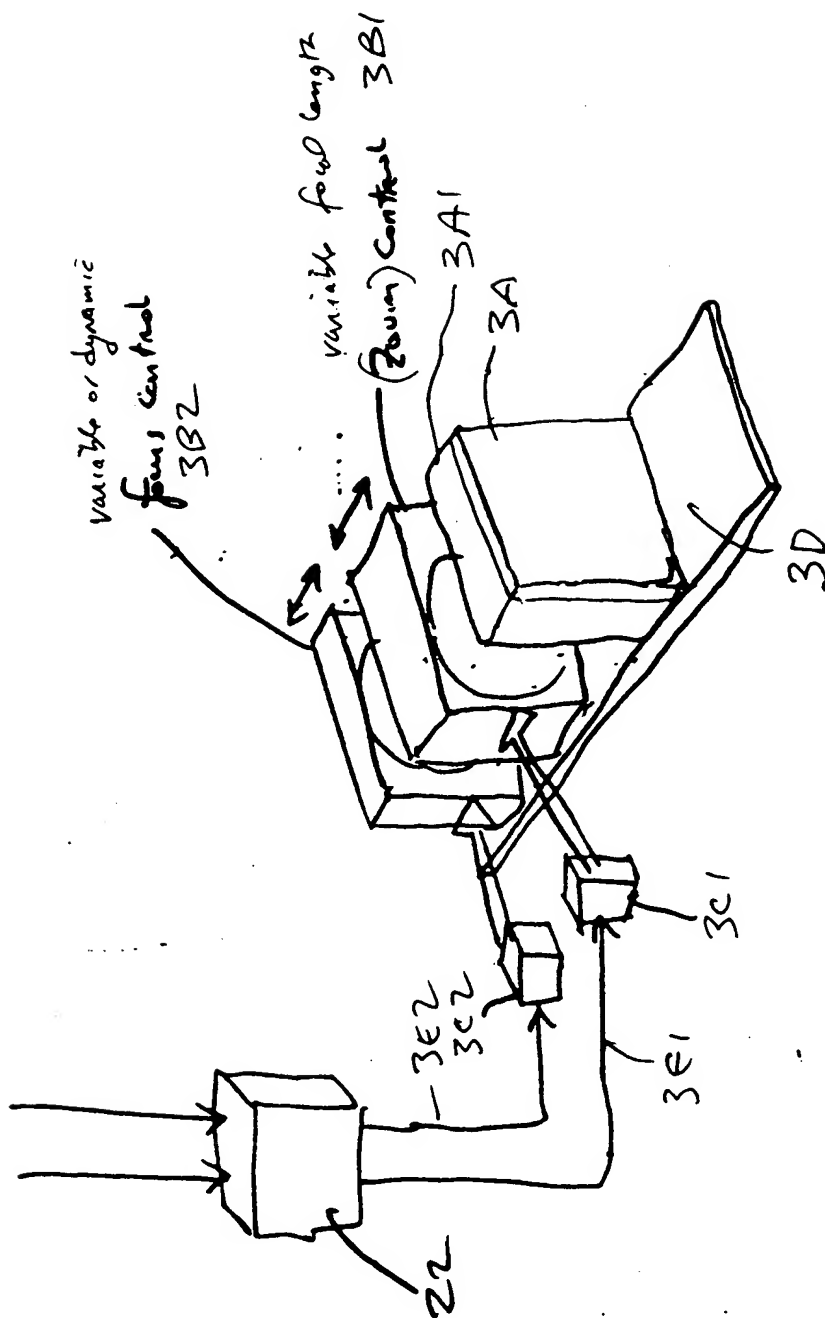


FIG. 3F3

80/137

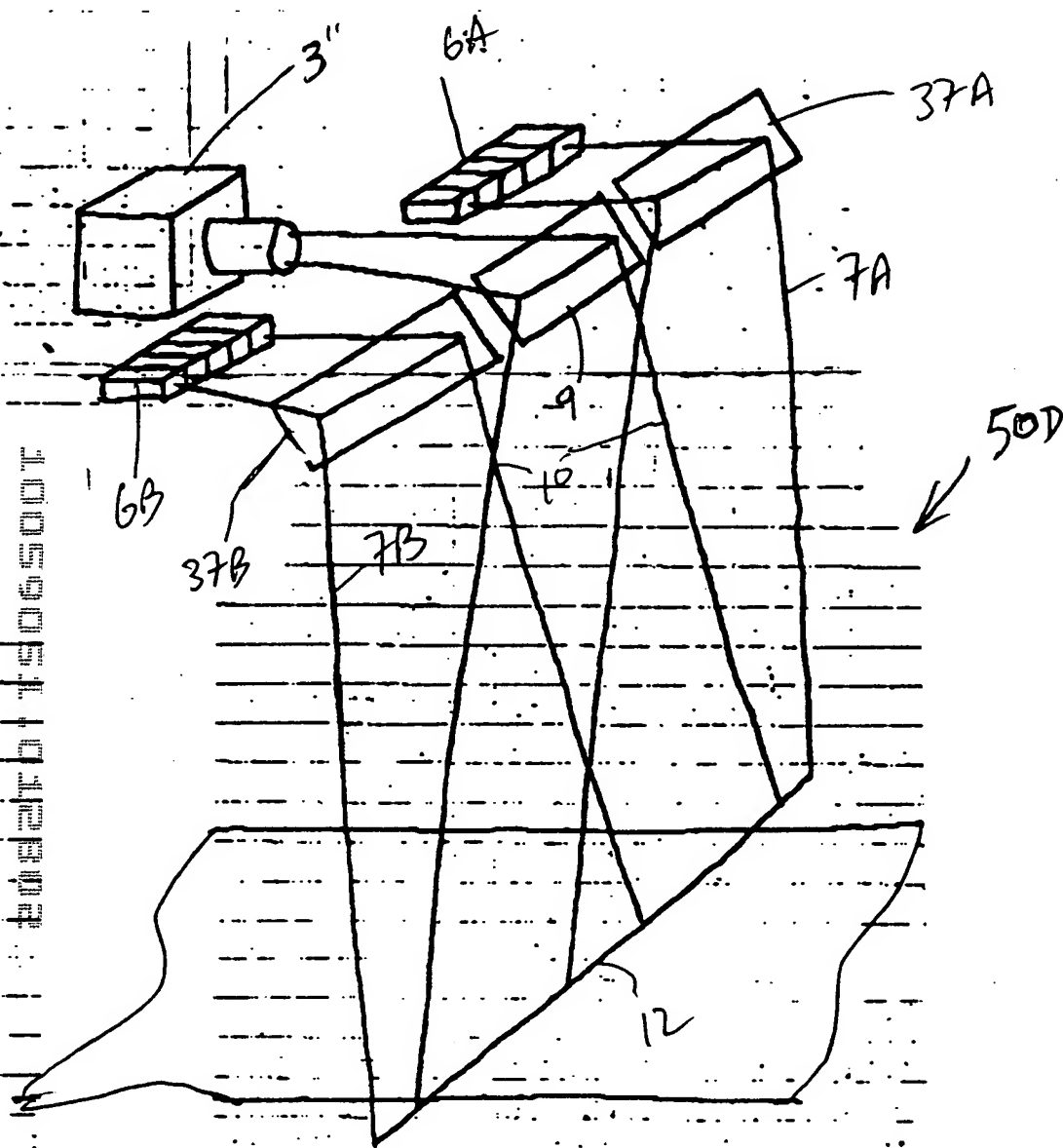


FIG. 3G1

208210" T506500T

81/137

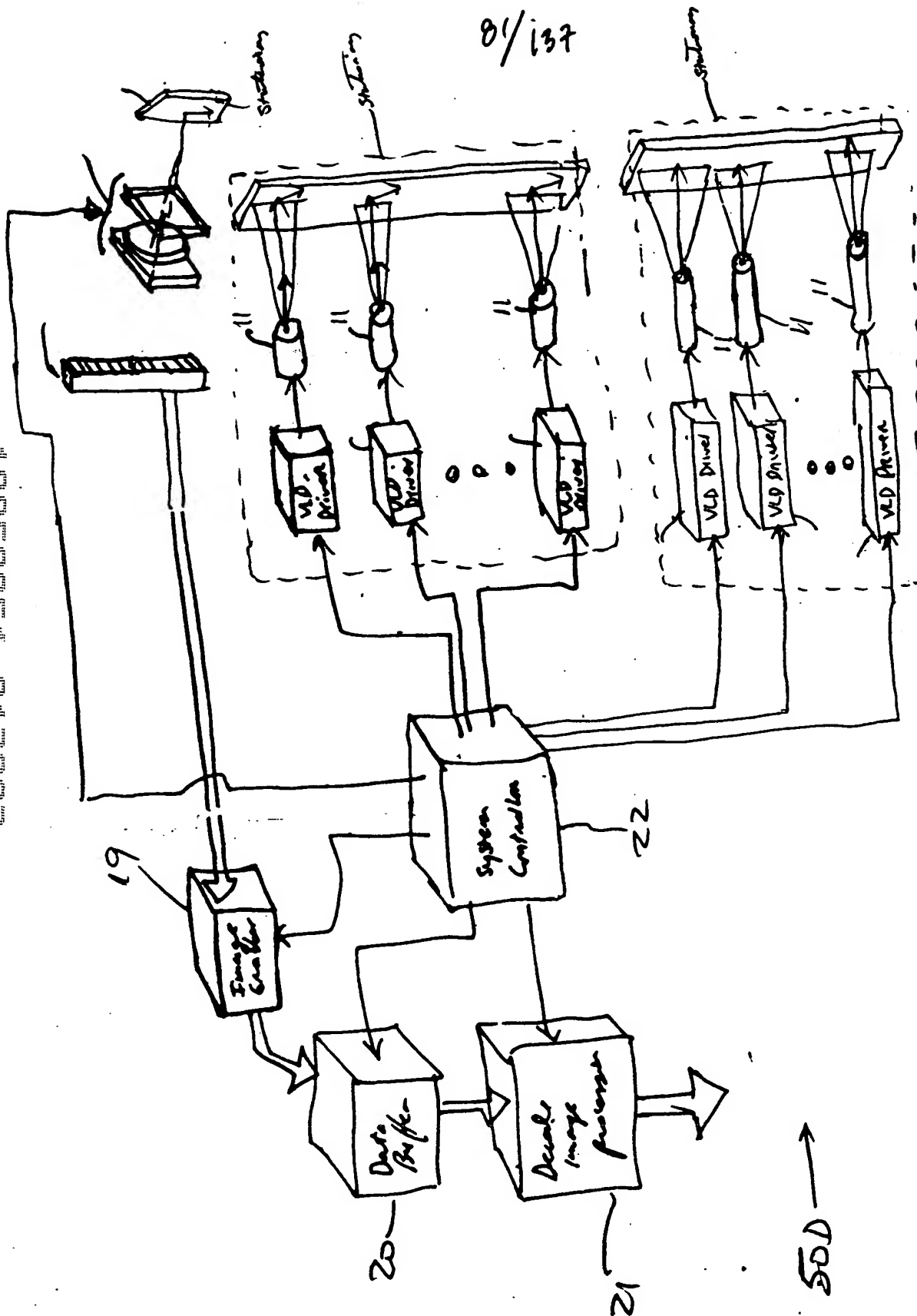


FIG. 392

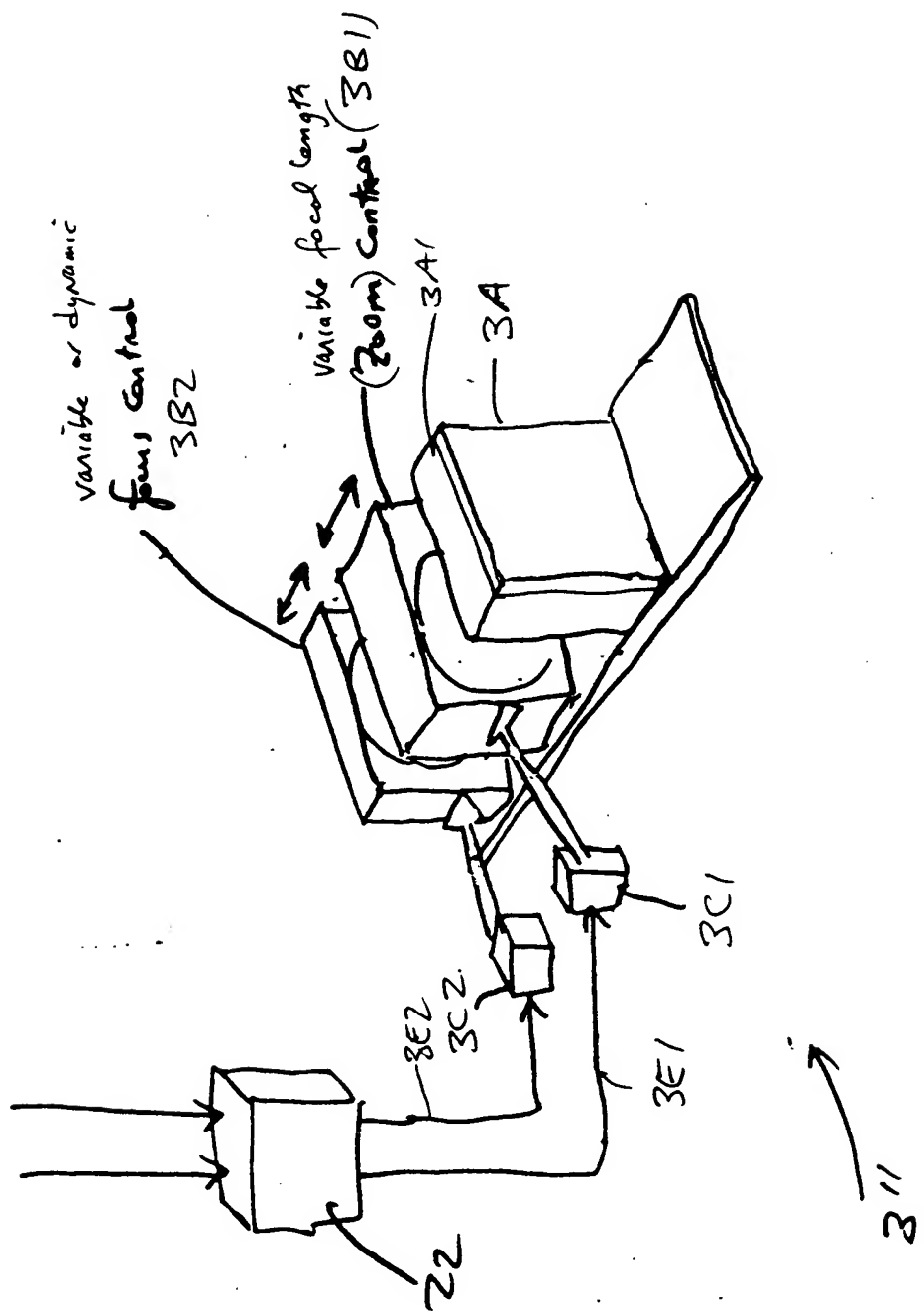


FIG. 3Q3

82/137

203210" T506500T

83/137

208210" T506500T

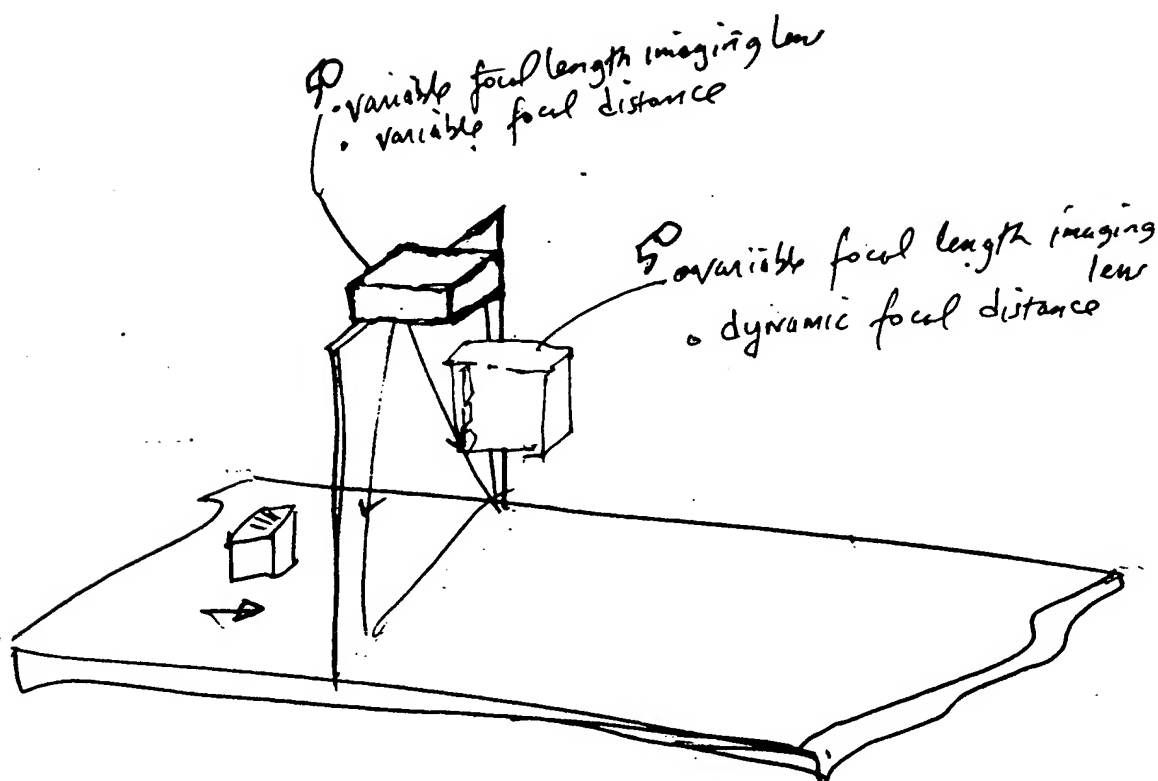


FIG. 3H

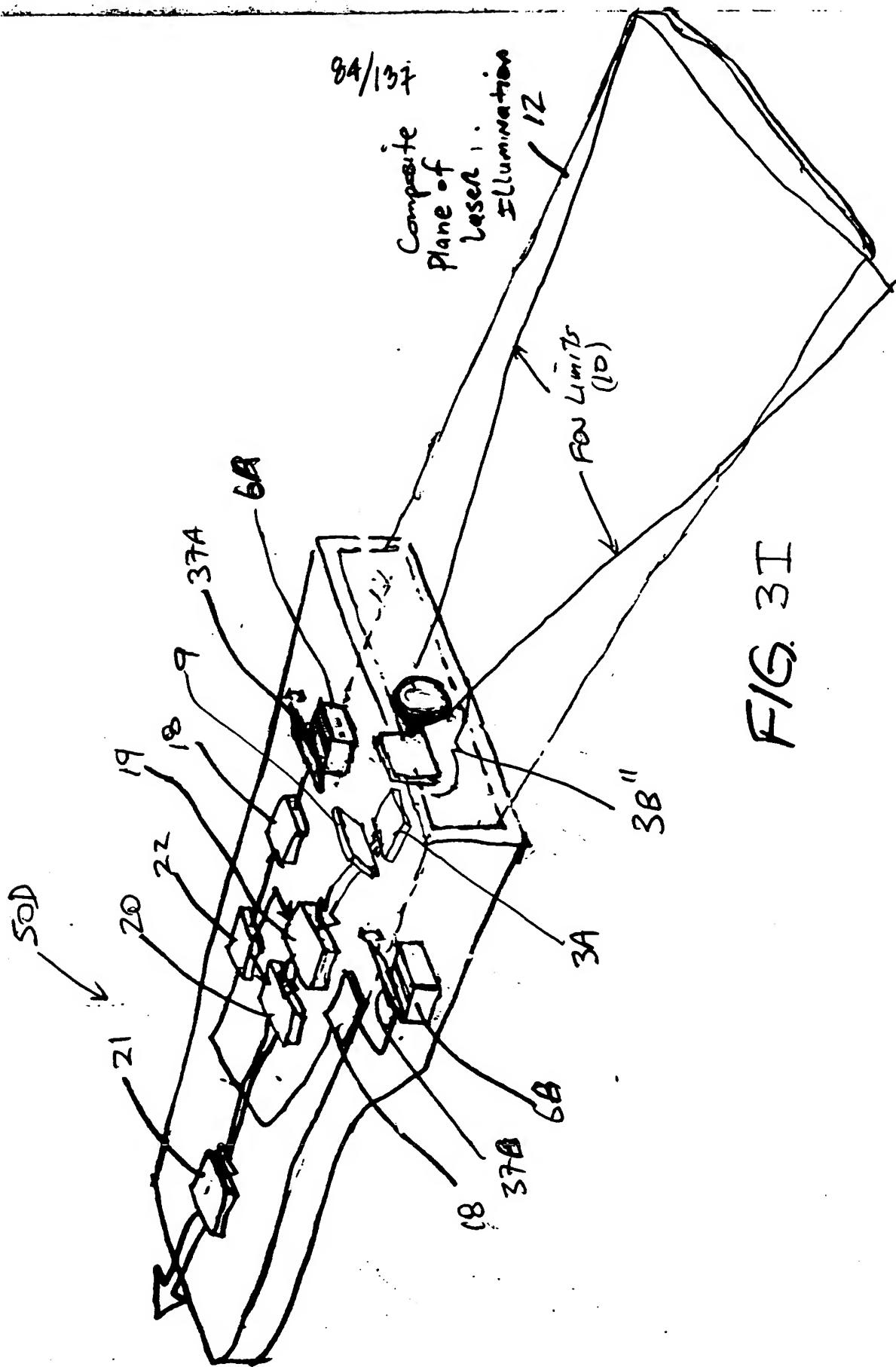


FIG. 3I

2082FD"FS06SDOT

85/137

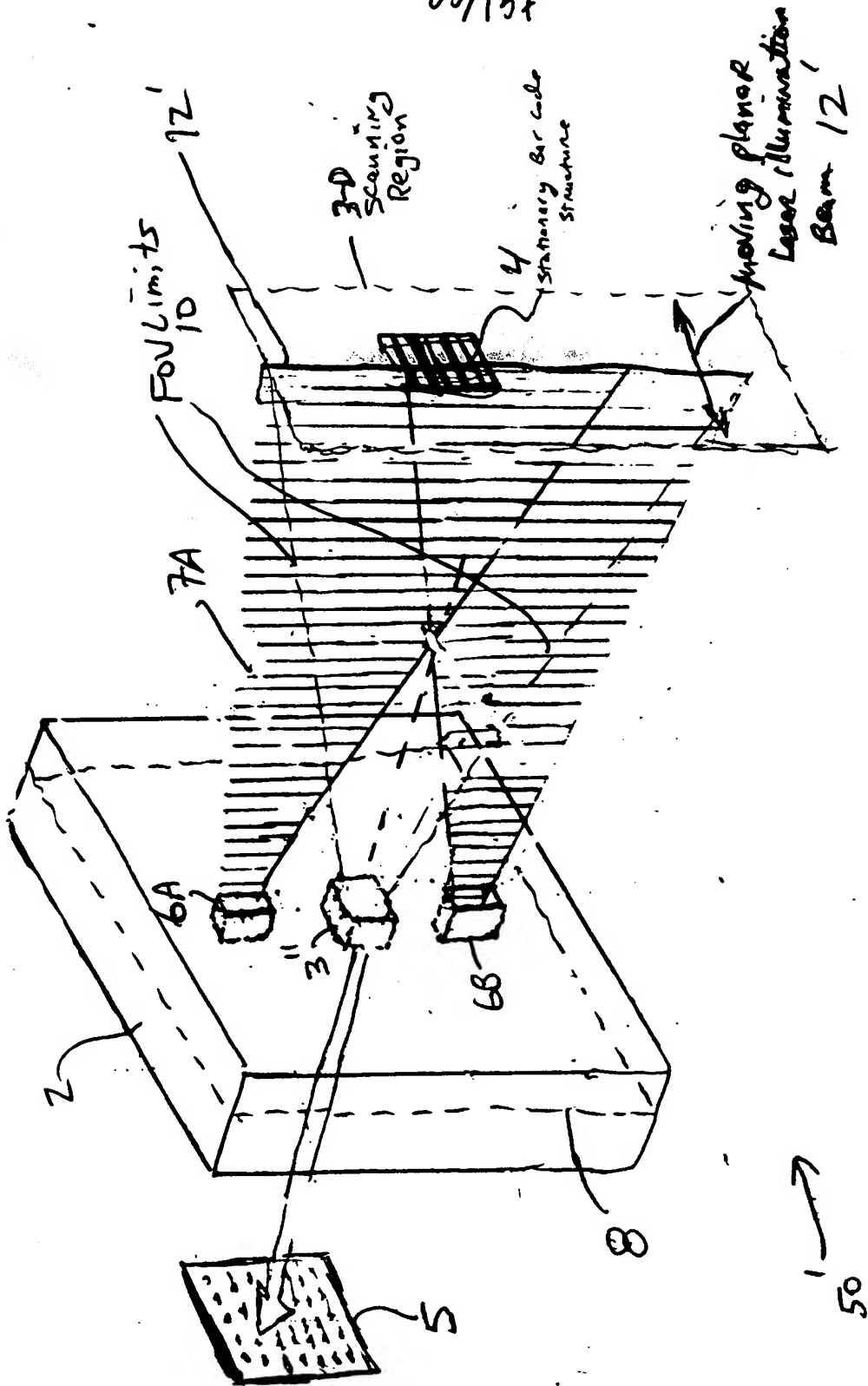


FIG. 3J1

06/137

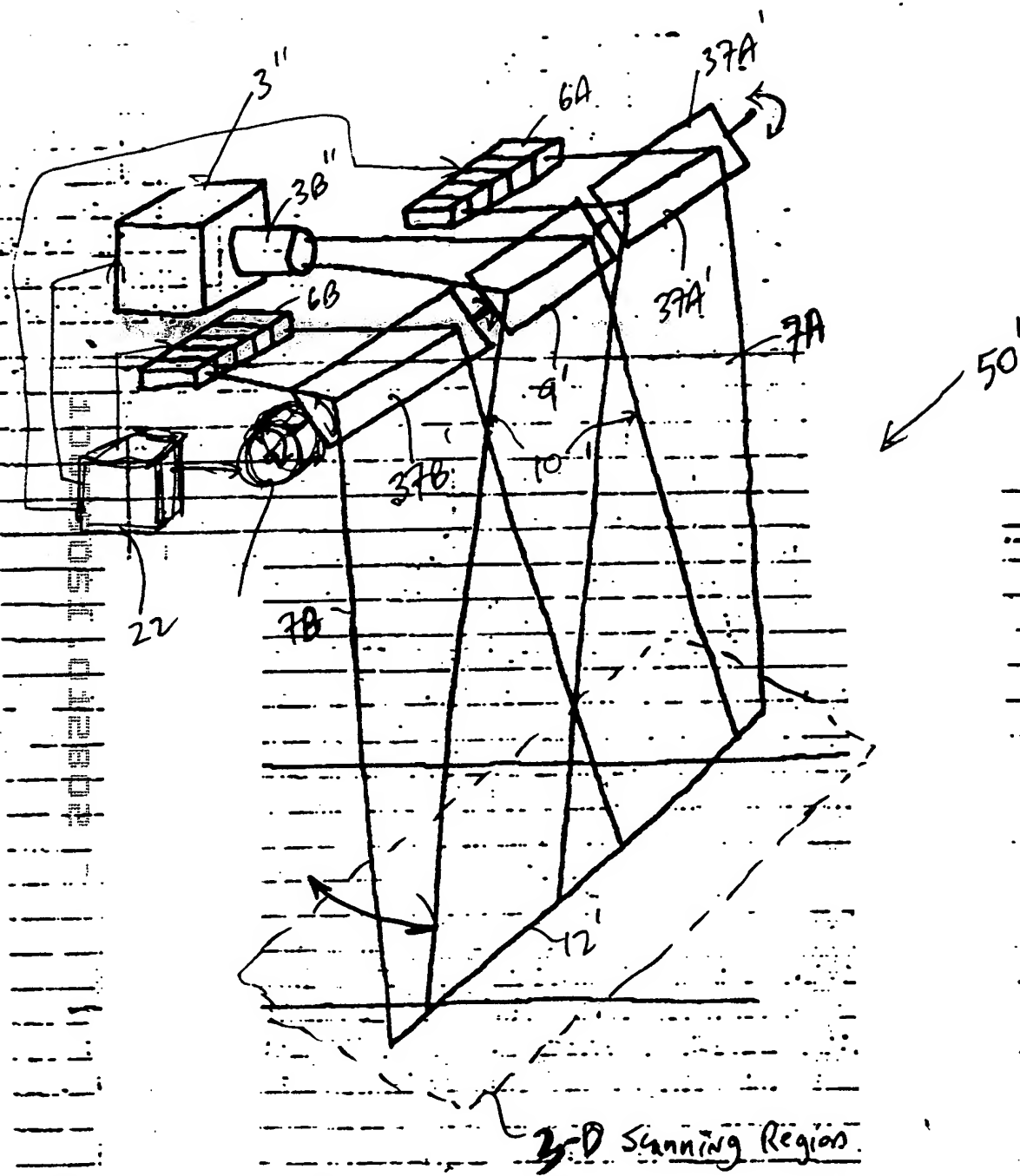
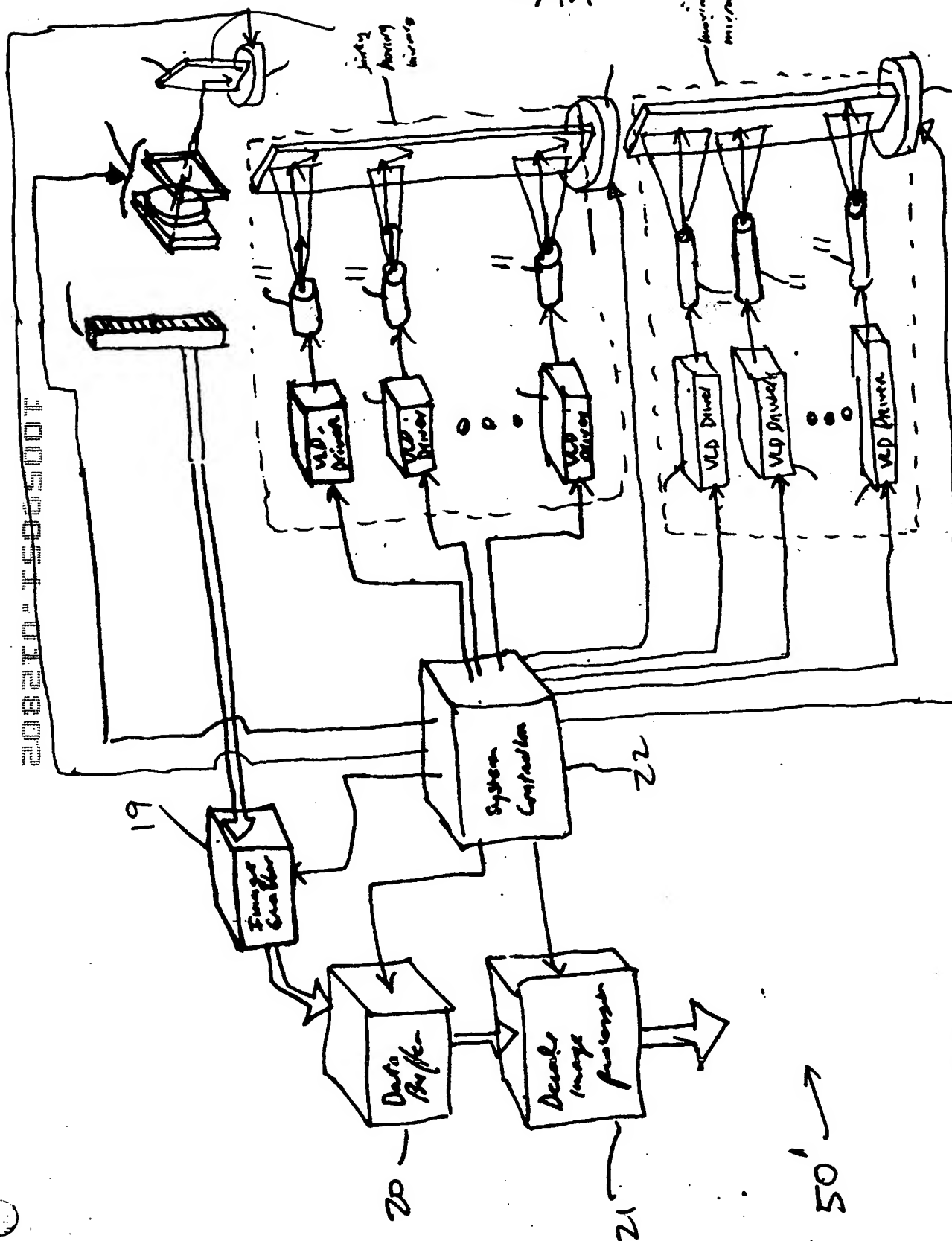


FIG 3J2

08/137



05

208270" F506500T

88/137

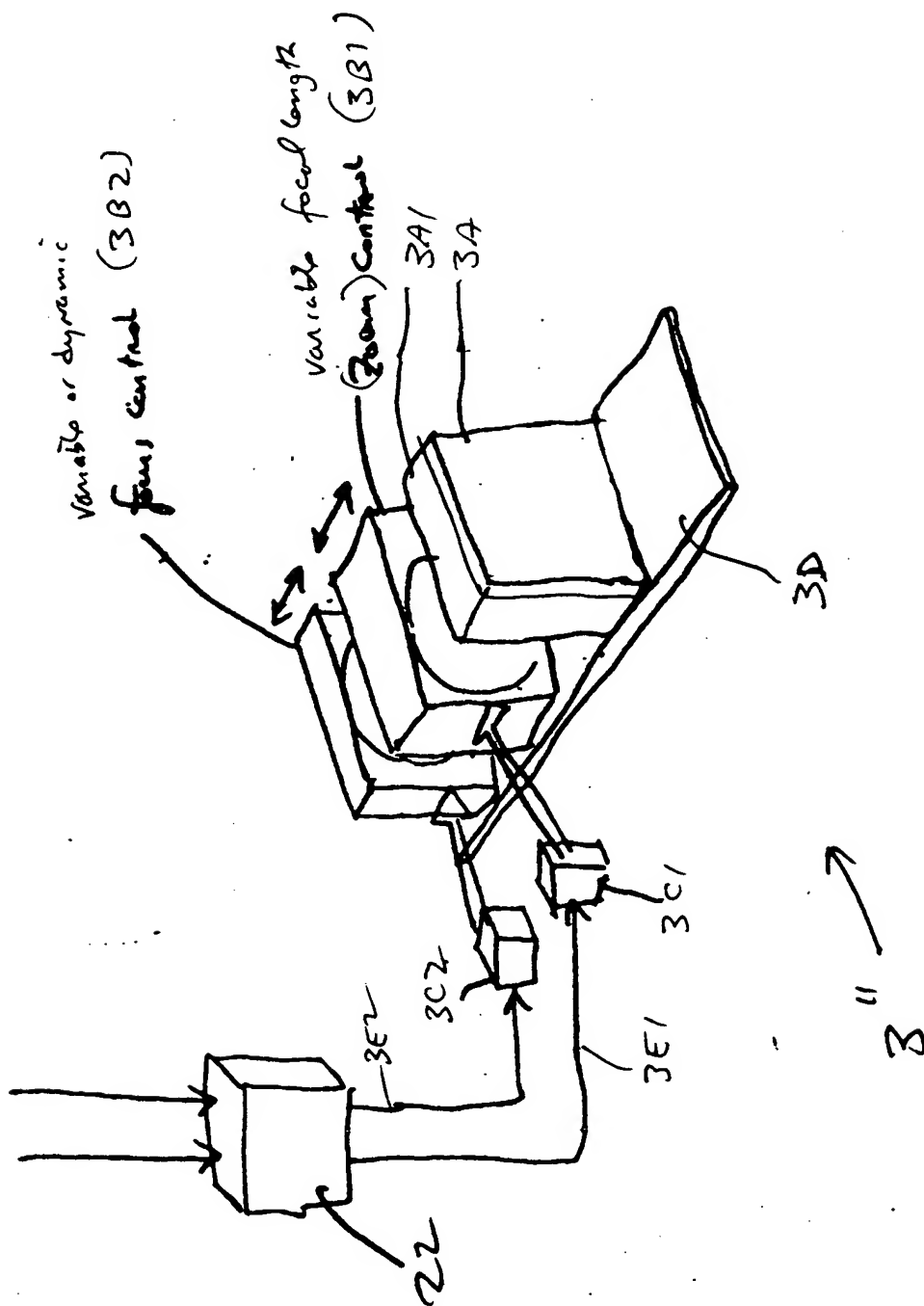


FIG. 354

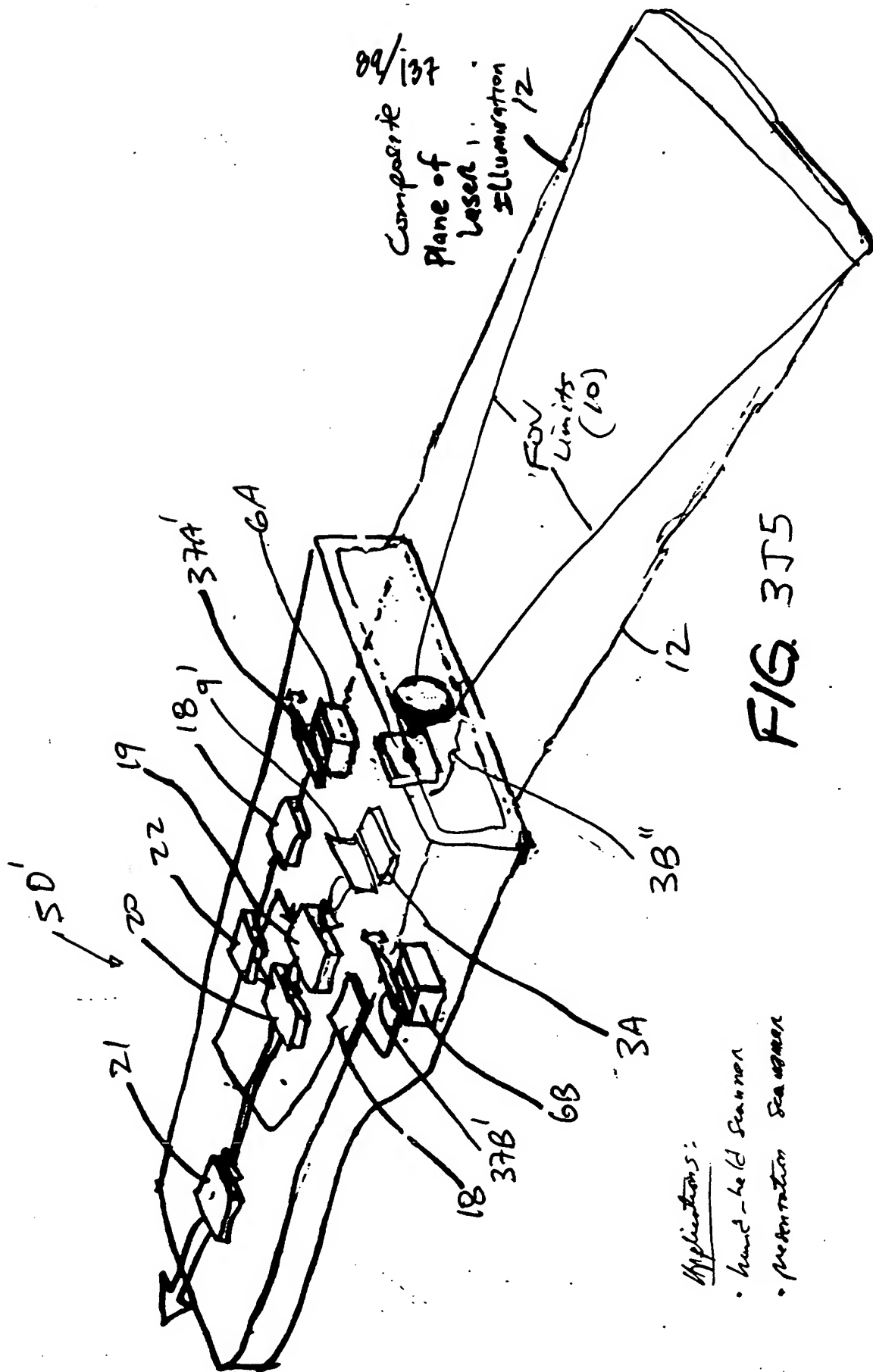
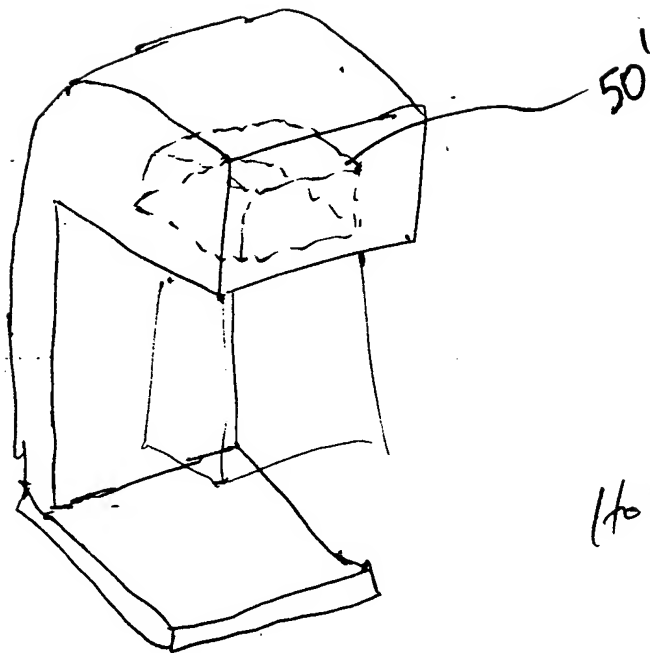


FIG. 3T5

- Applications:
- hand-held scanner
 - perimeter scanner

99/137

10059051.012002



2-D
Hold-in der
Scanner

FIG. 315

105051-0120

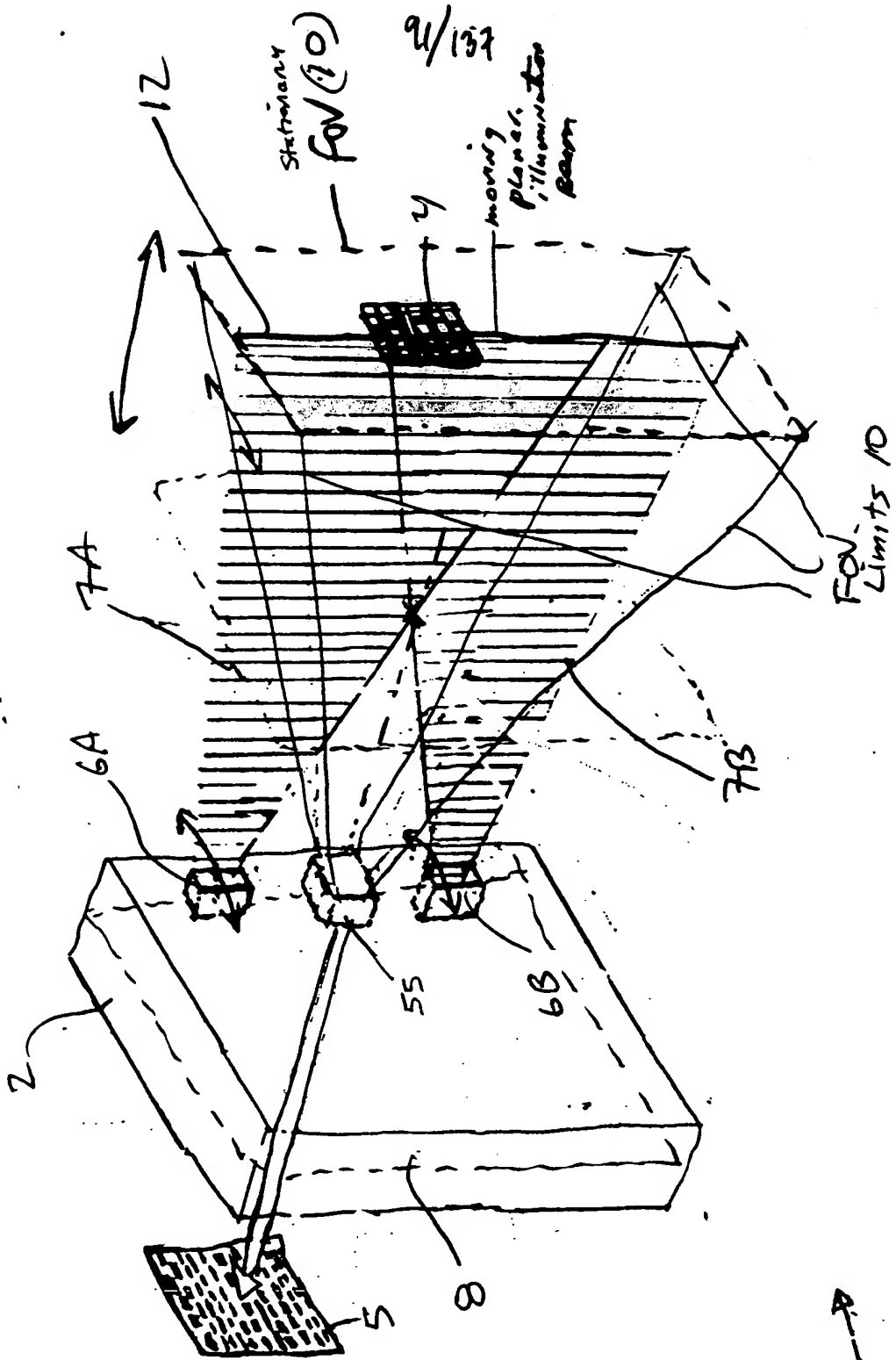
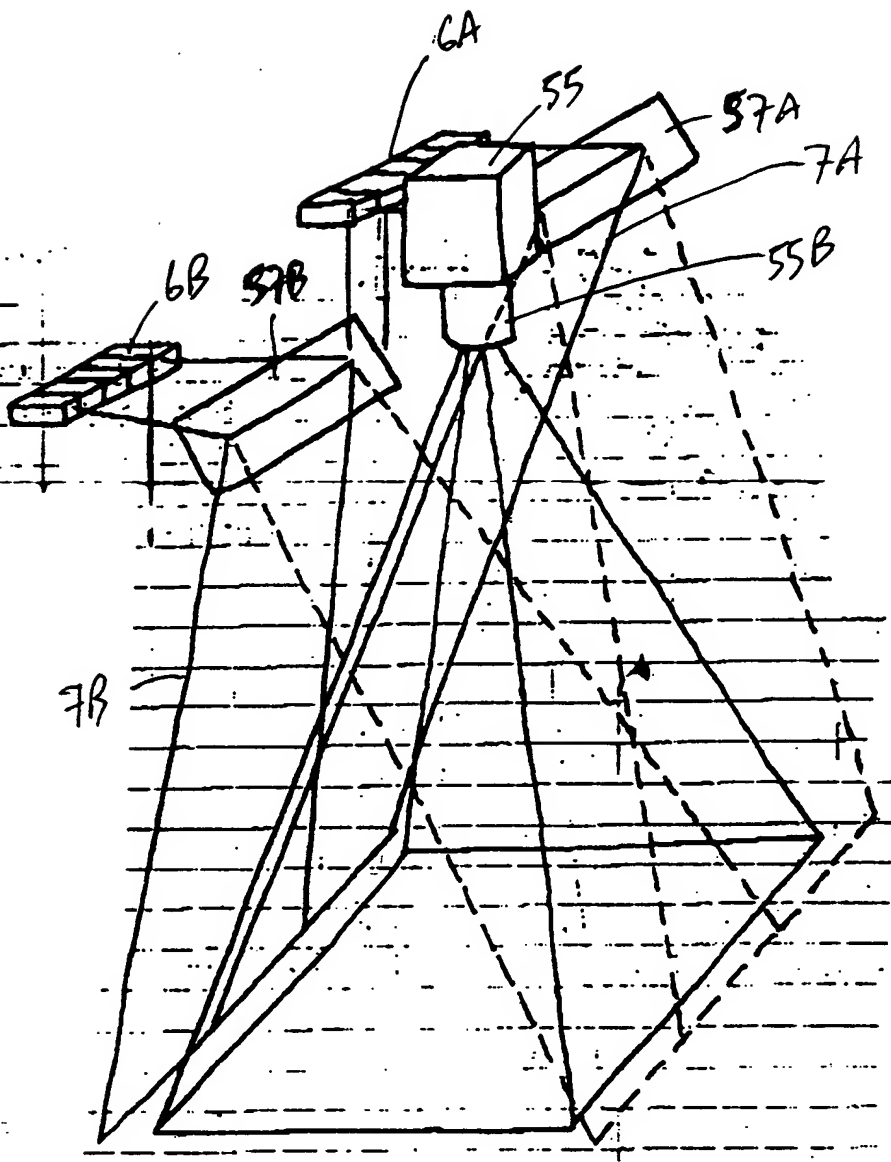


FIG 4A

92/137



60A

FIG. 4B1

208210" T506500T 10059051 012802

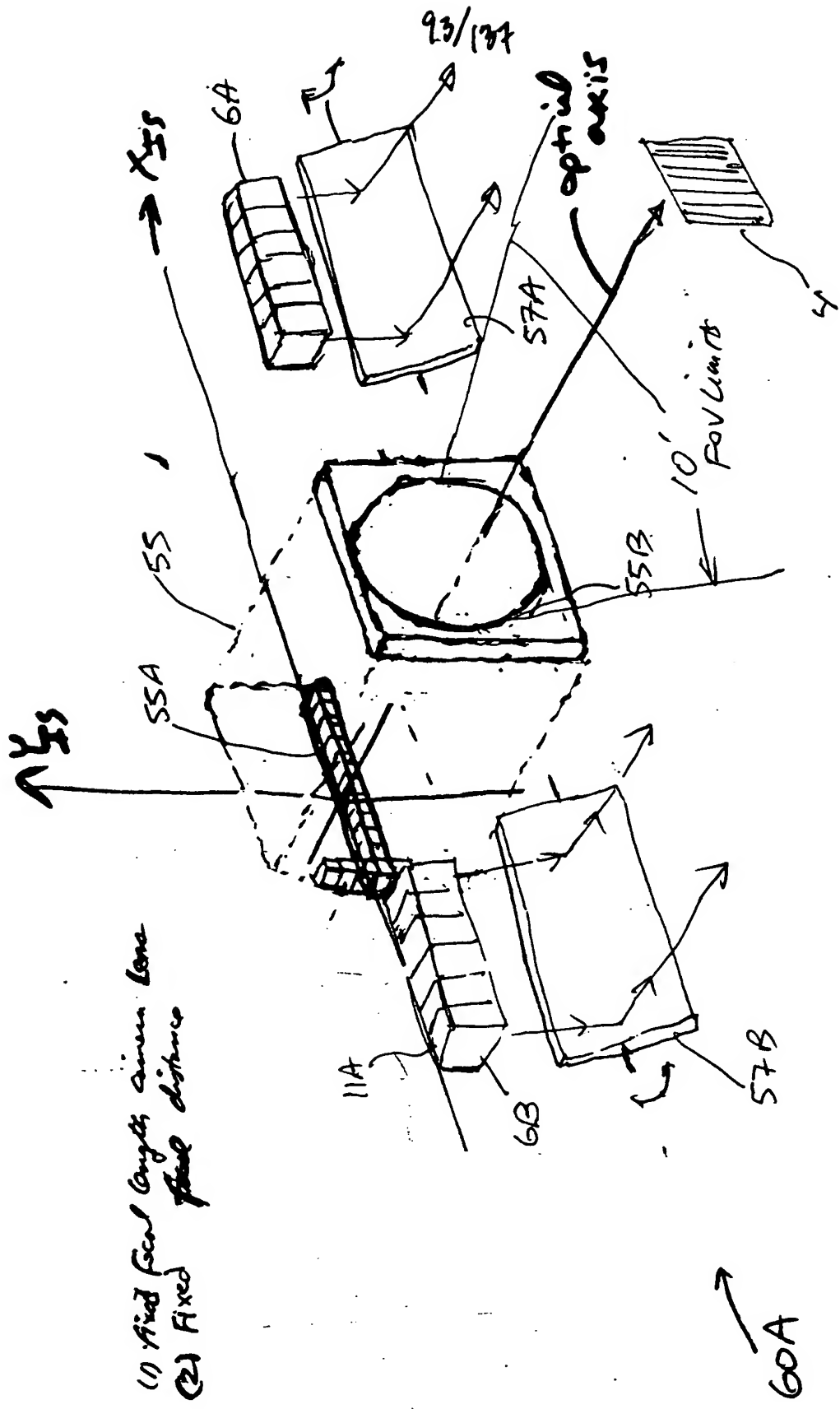


FIG. 4B Z

203210" T5065001

Fixed feed length
Fixed feed distance

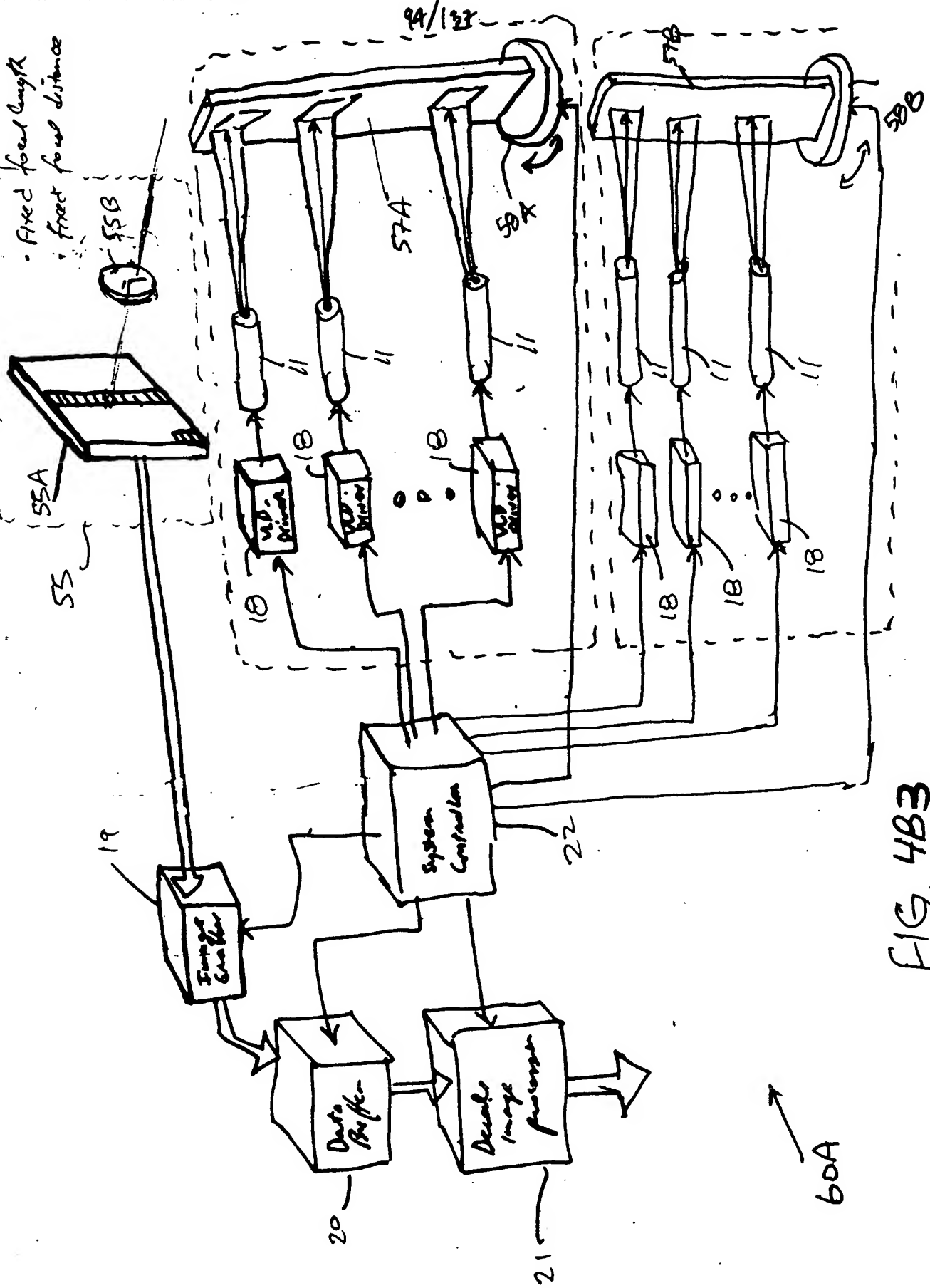


FIG. 4B3

95/137

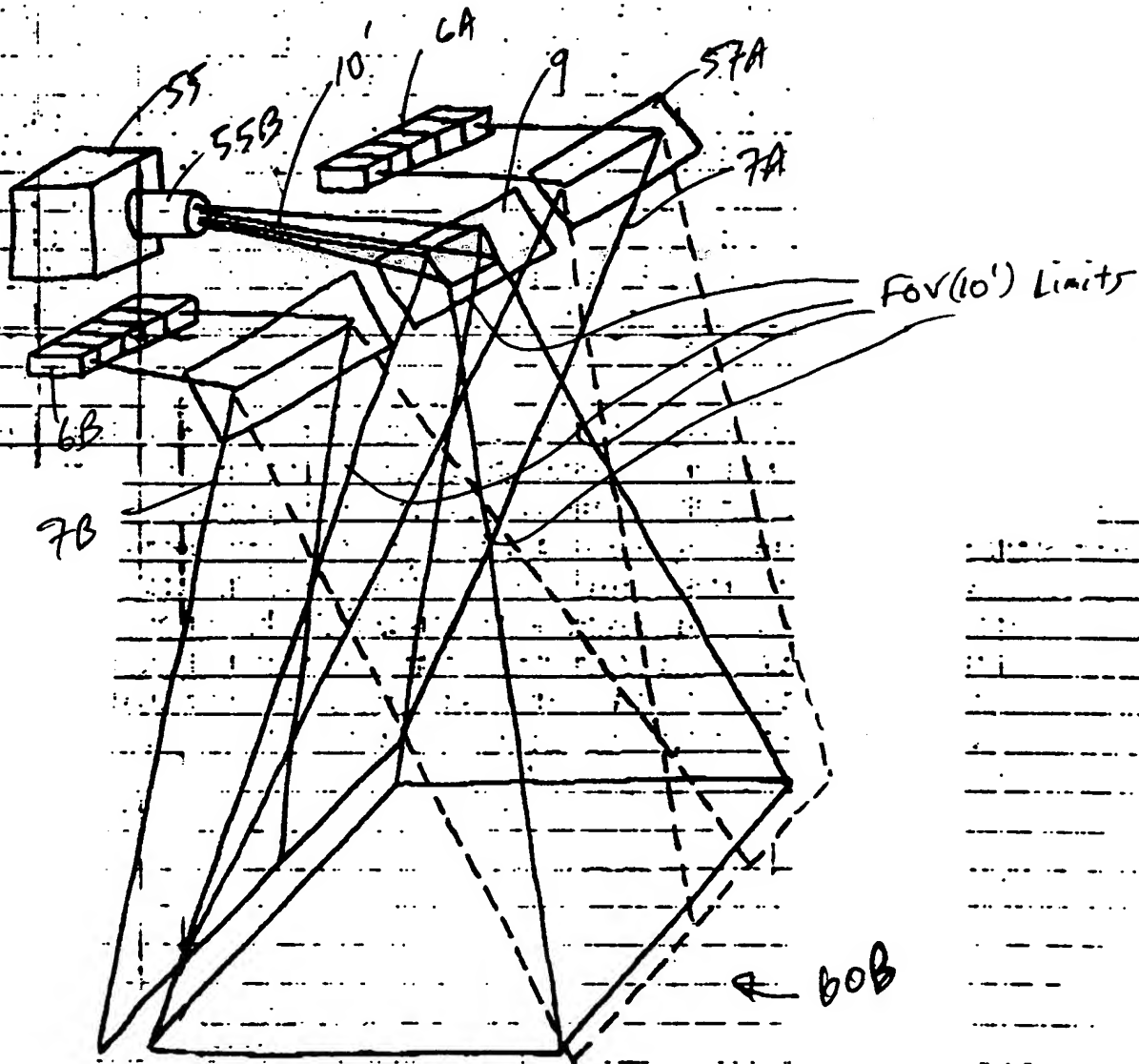


FIG. 4C-L

208210" T5067401T

96/192

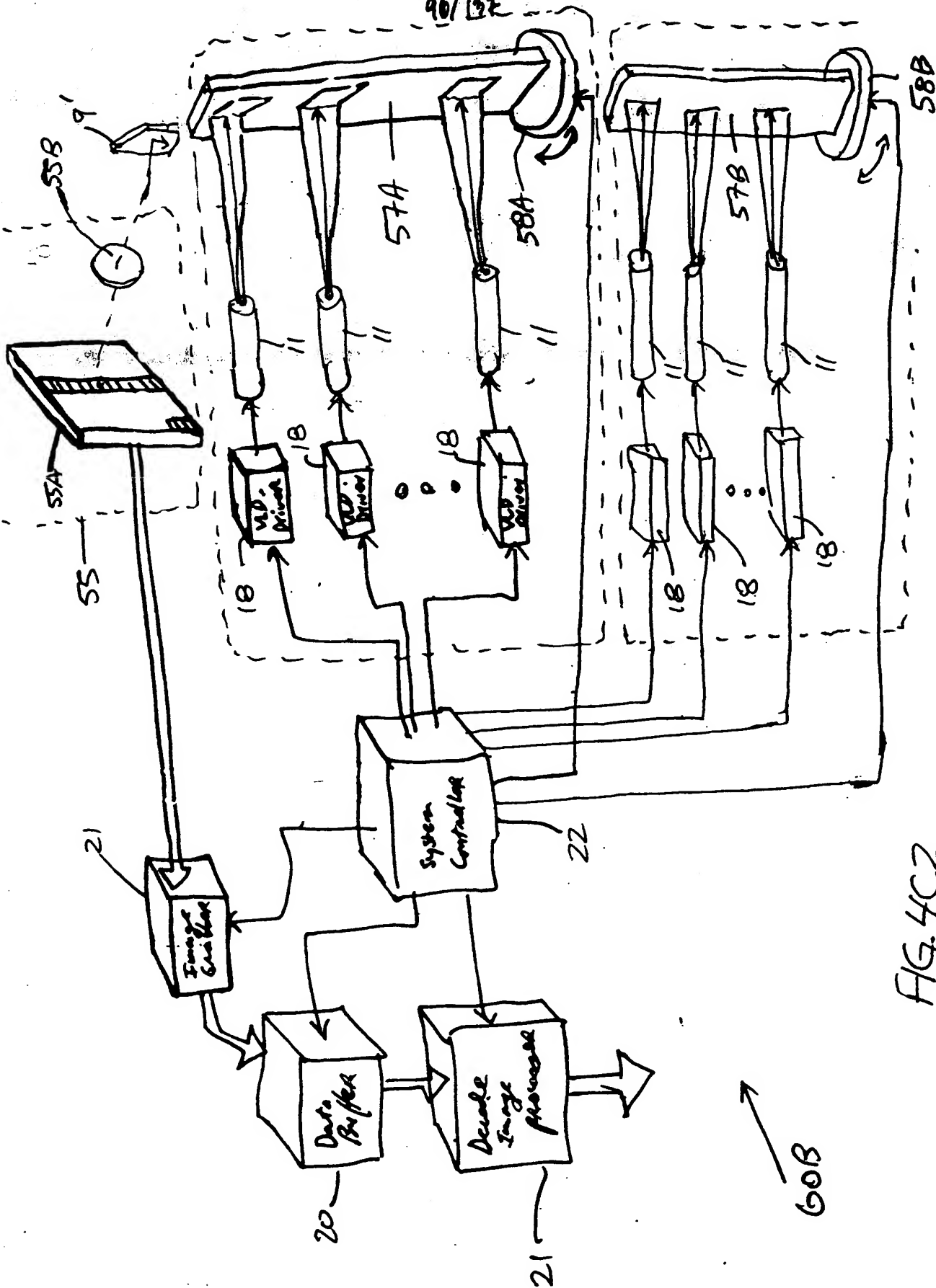
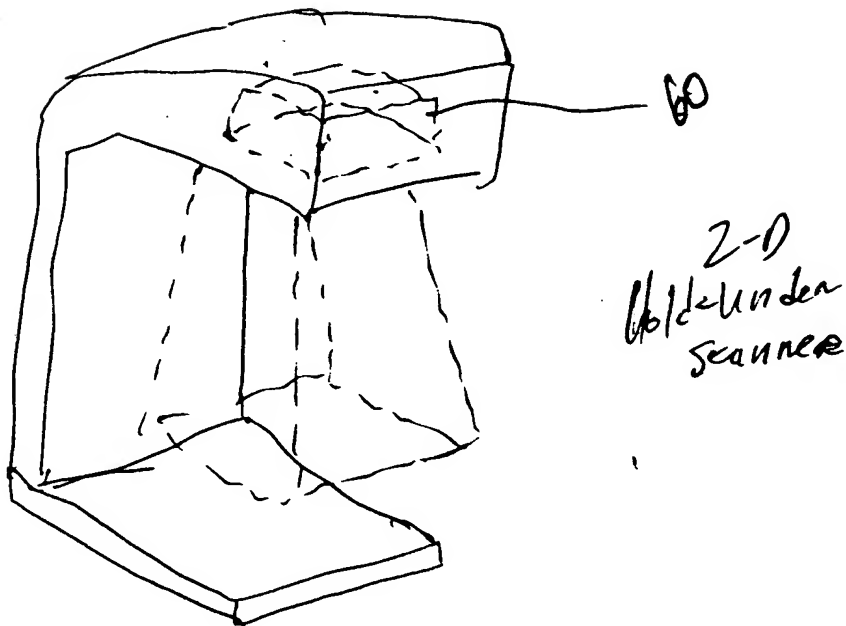


FIG. 4C2

92/102

208210" T506500T



2-D
Goldend
Scanner

FIG. 4D

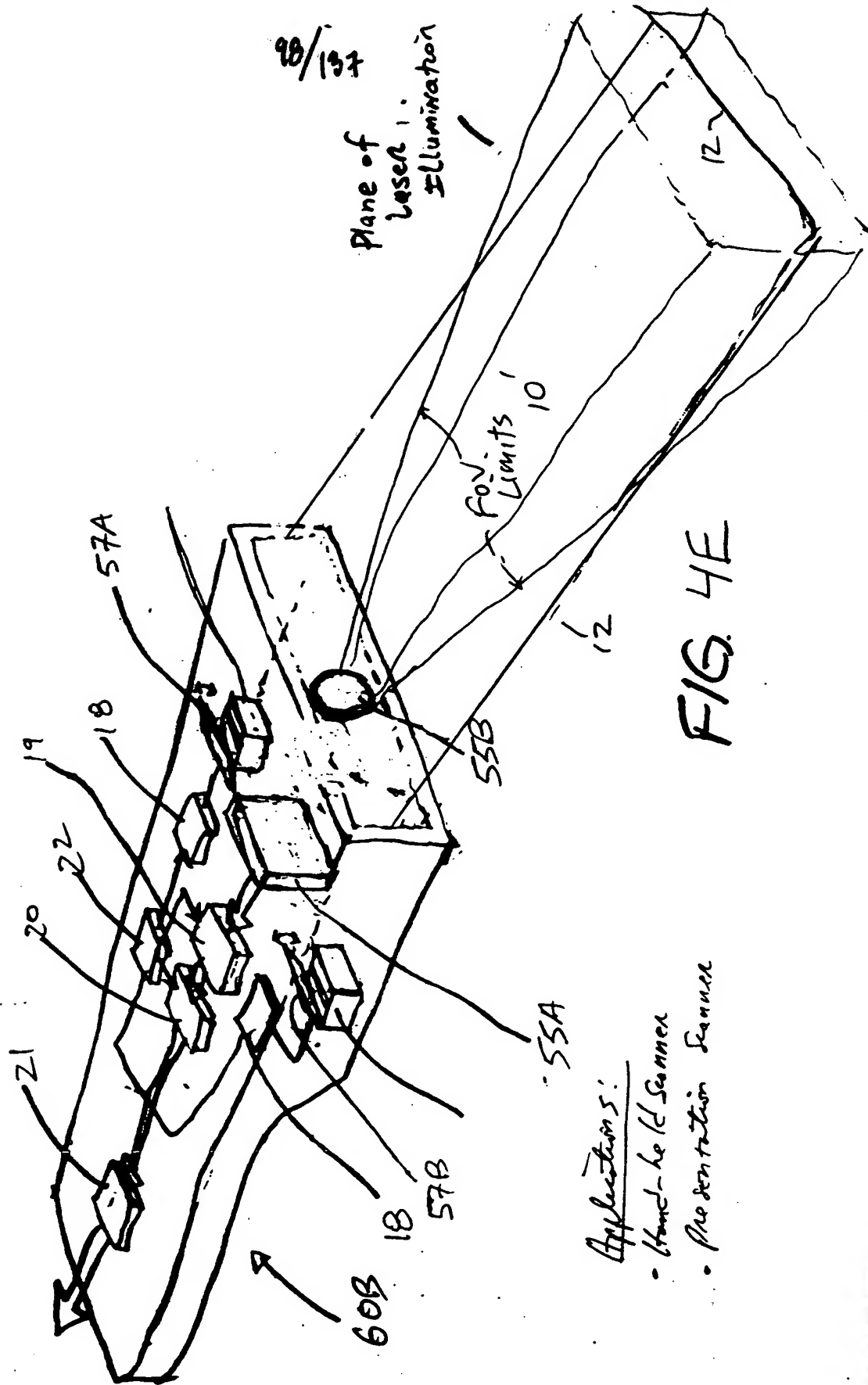


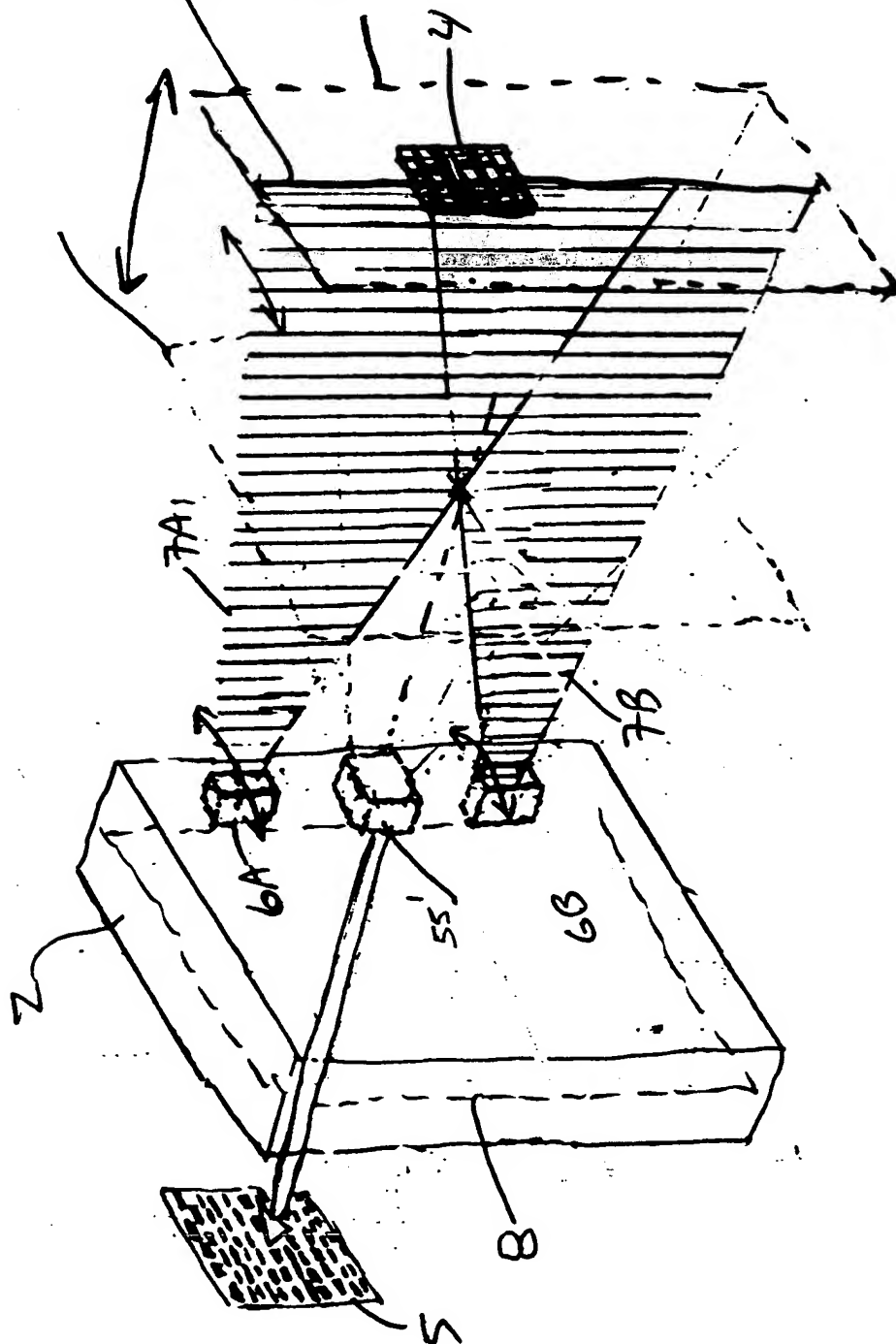
FIG. 4E

- Applications:
- Hand-held Scanner
 - Presentation Scanner

02

moving
plane laser
illumination
beam

stationary
fov(10)



AG 5A

208270-T506500T

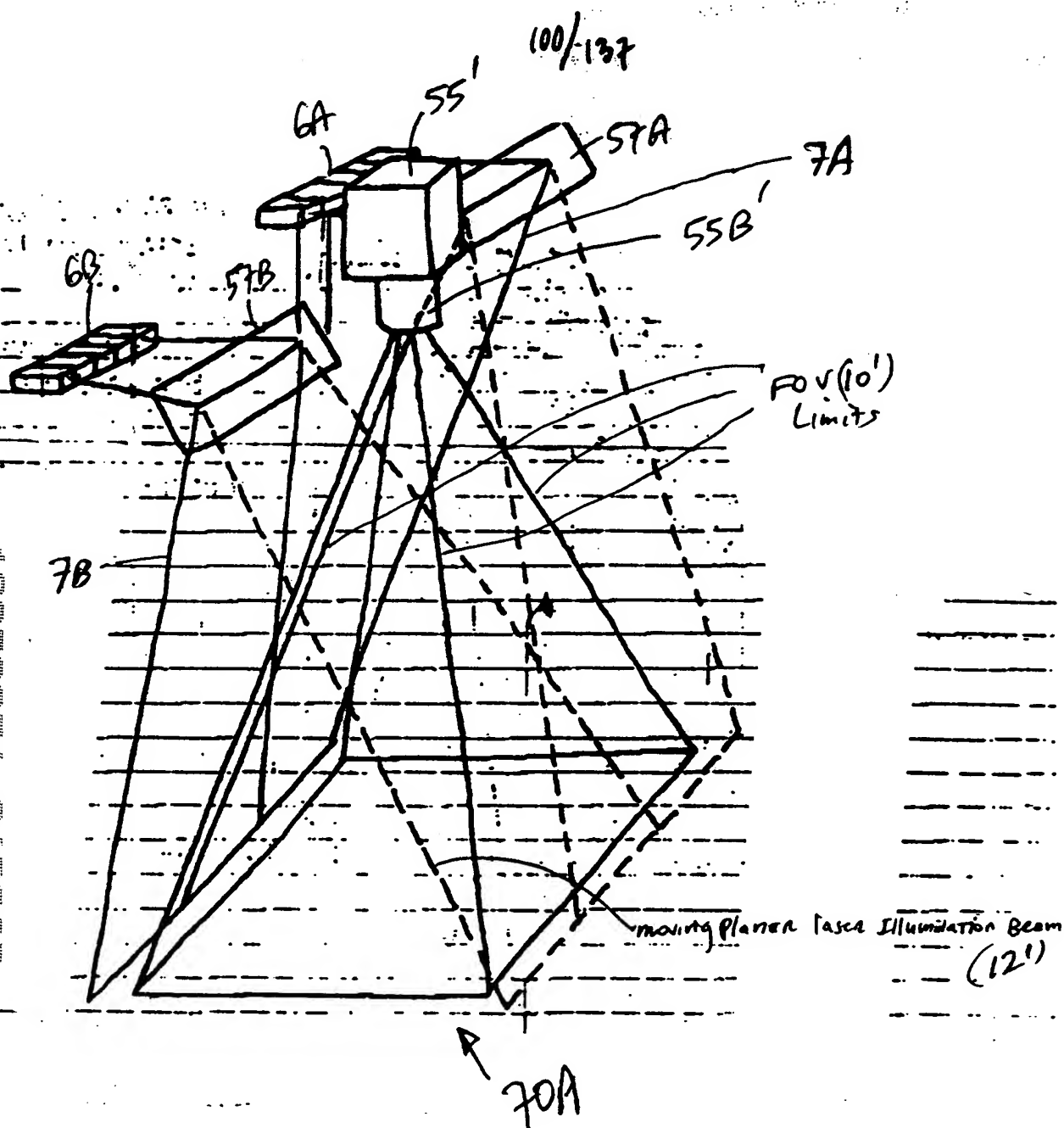


FIG 5B1



1

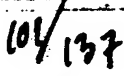
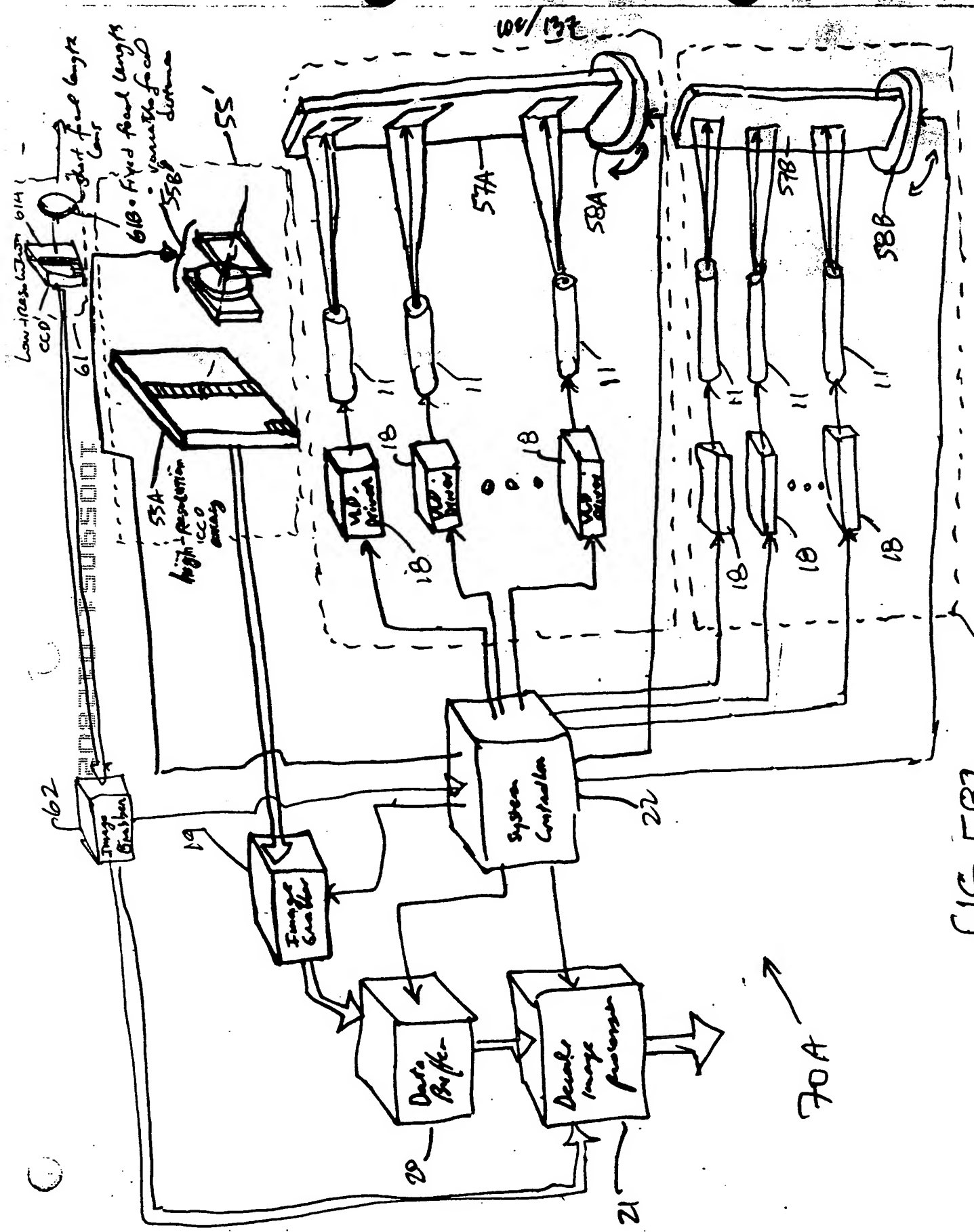


FIG. 5B2



9

208210 T506500T

103/137

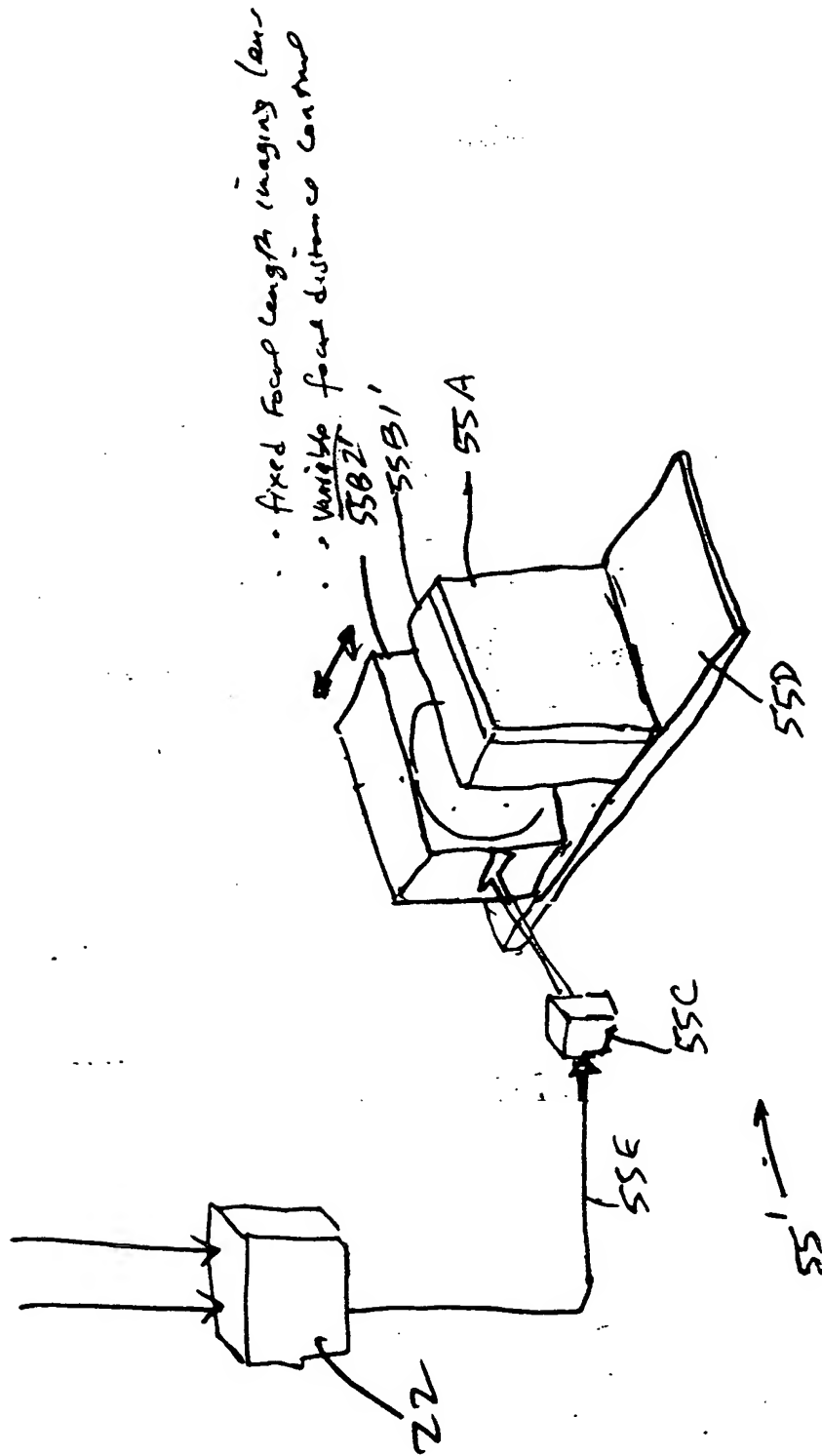


FIG. 5B4

104/137

208270 15065007

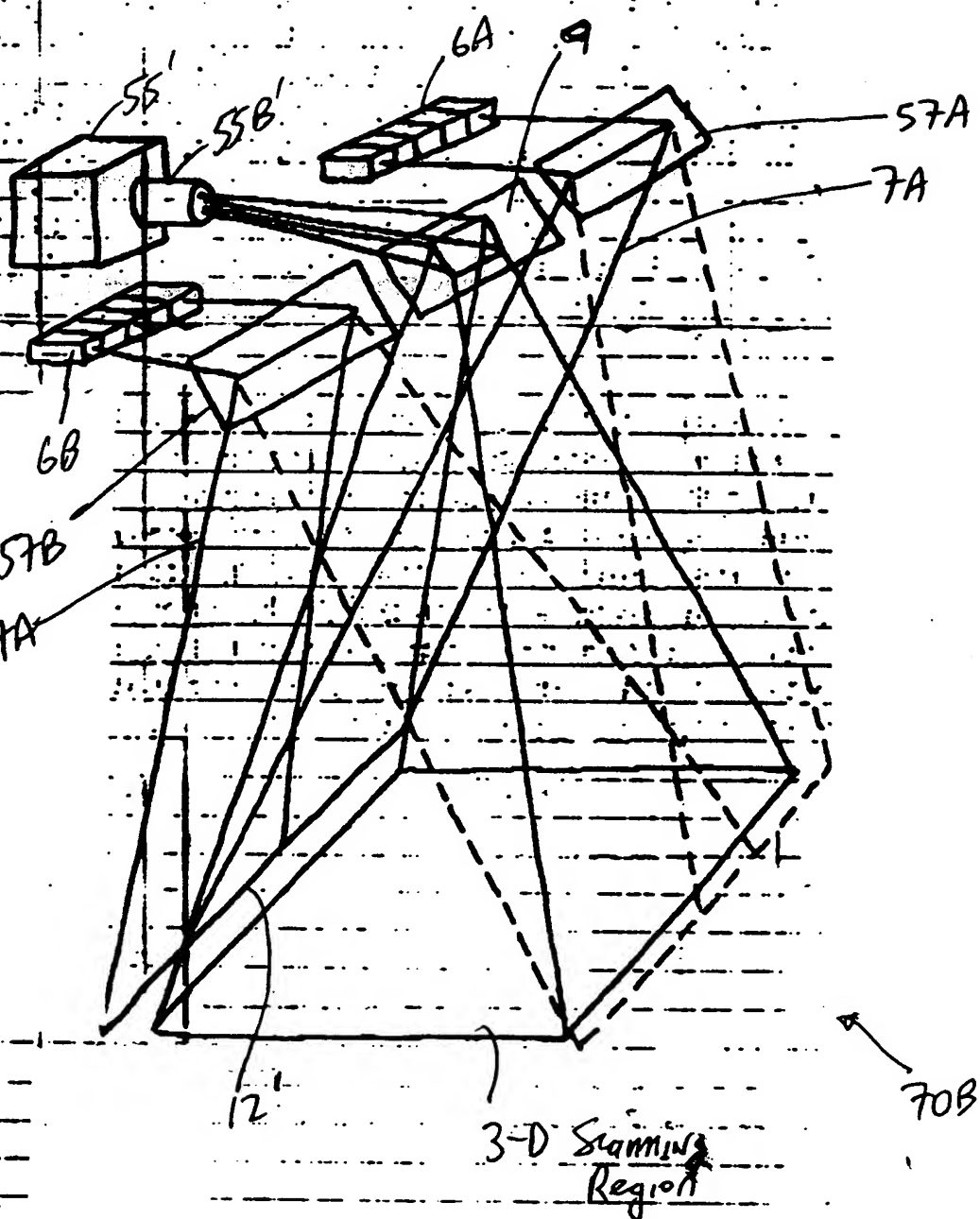


FIG. 5C1

(1) variable focal length lens
(2) Fixed fluid distance

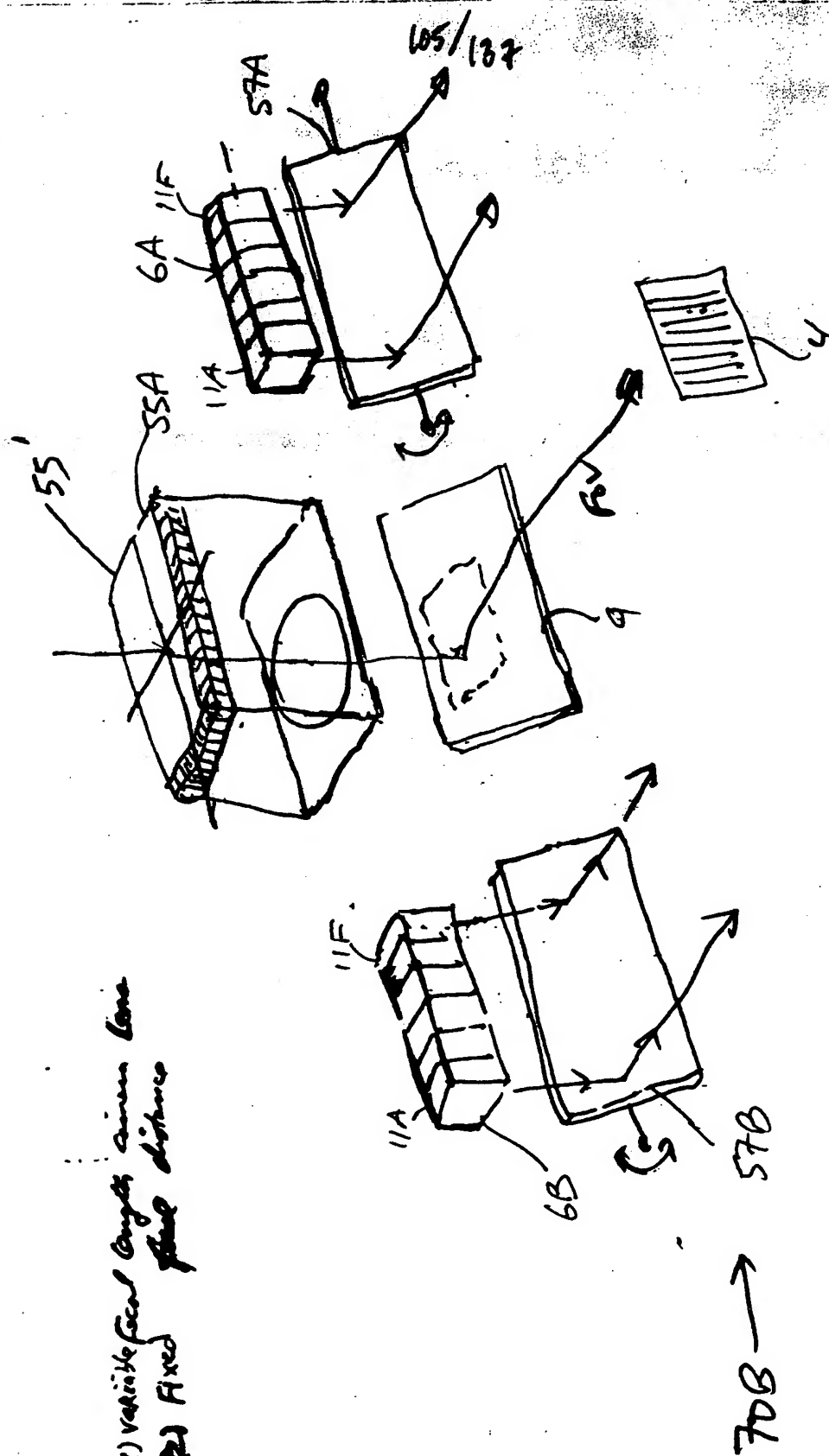


FIG. 5C2

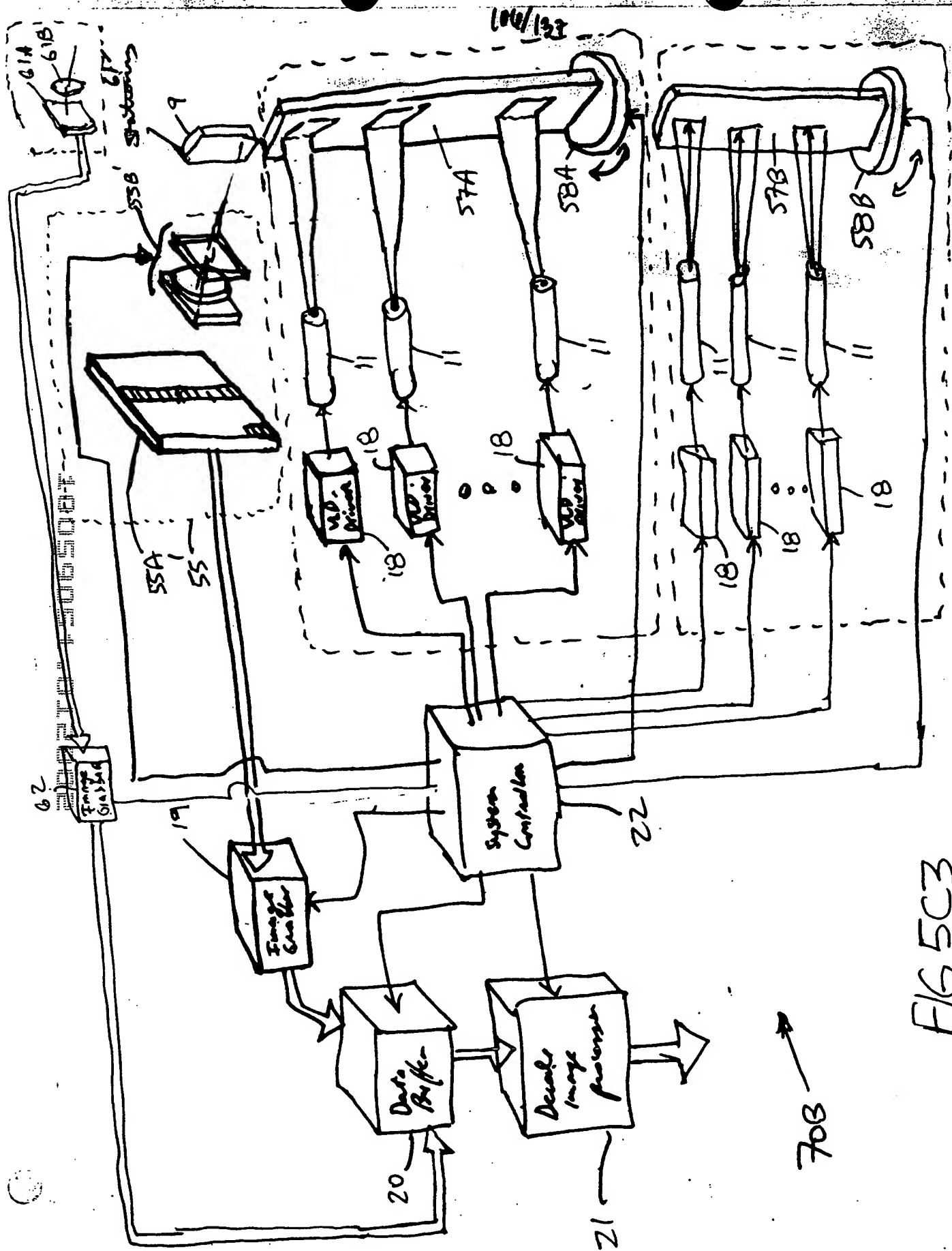


FIG. 5C3

208210" T506500T

107/137

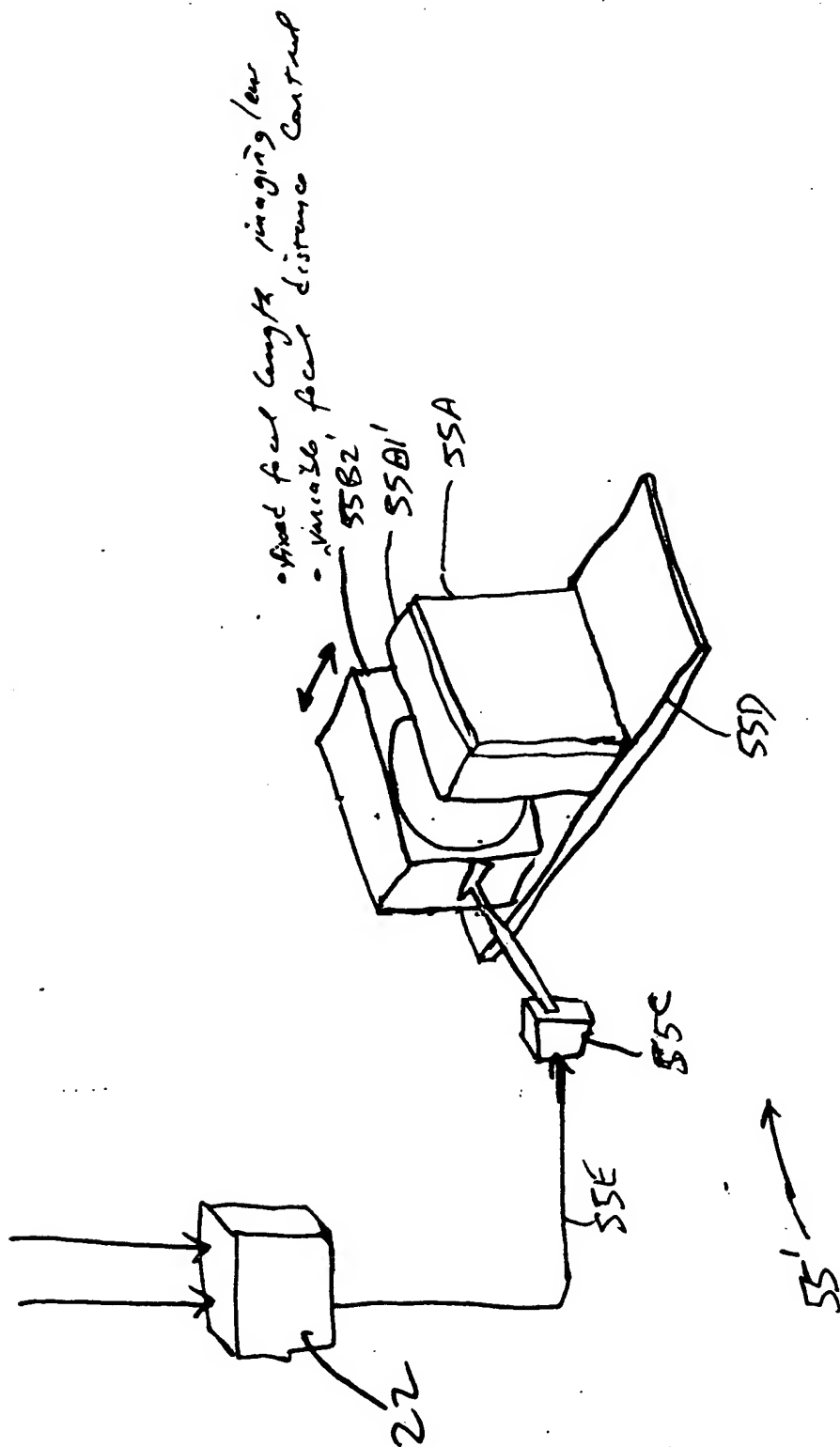


FIG. 5C4

109/137

20221015065001

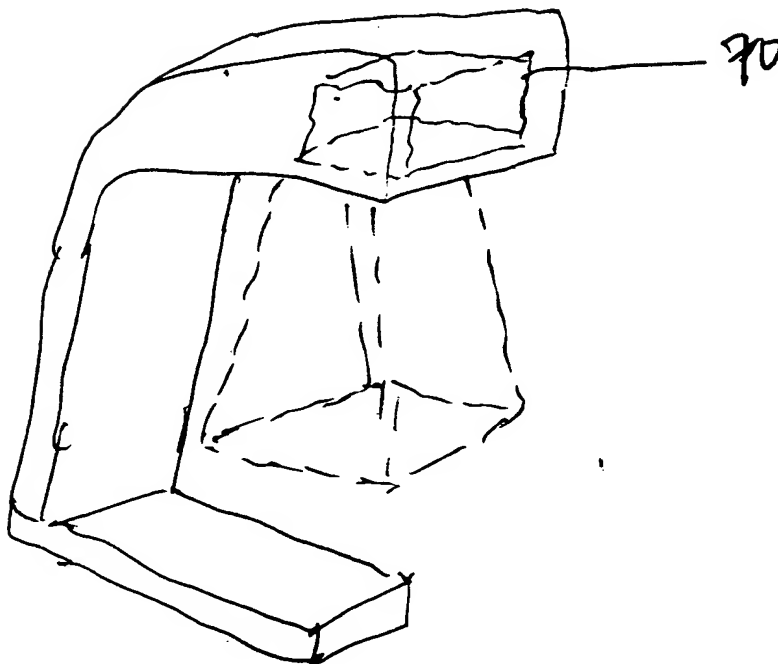
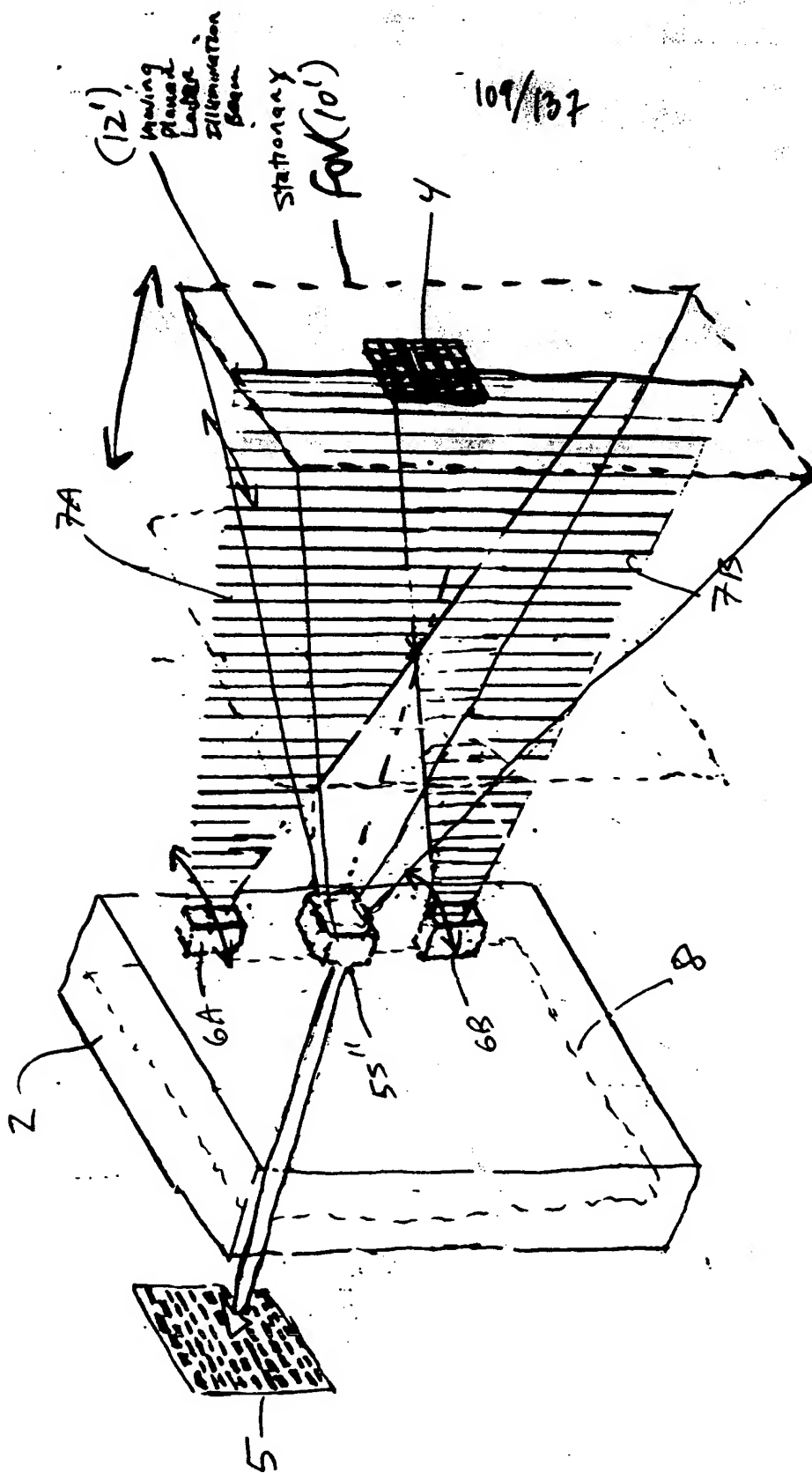


FIG. 5D

00

3)

208210" F506500T



109/137

FIG. 6A

86

208210" T506500T

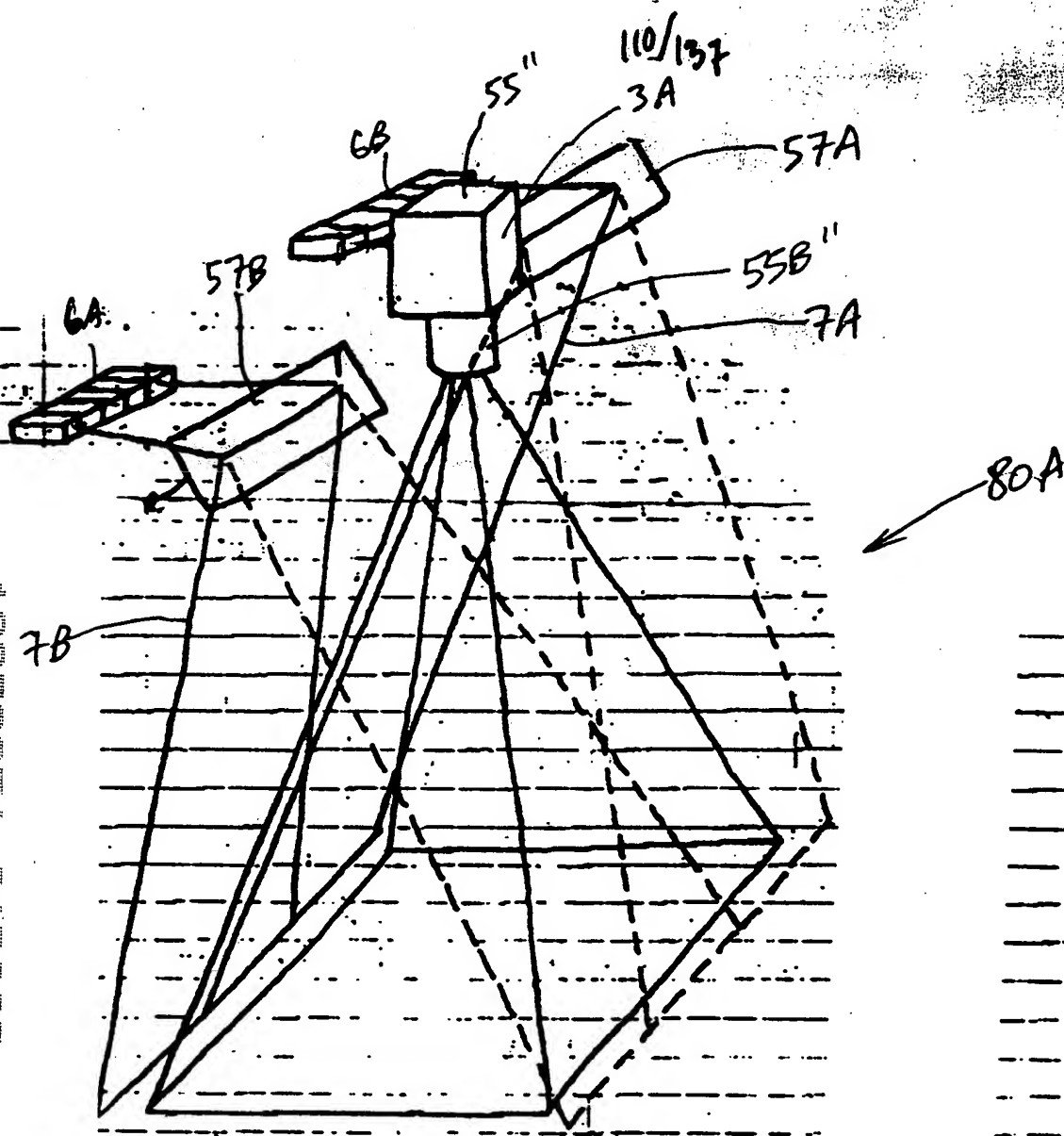
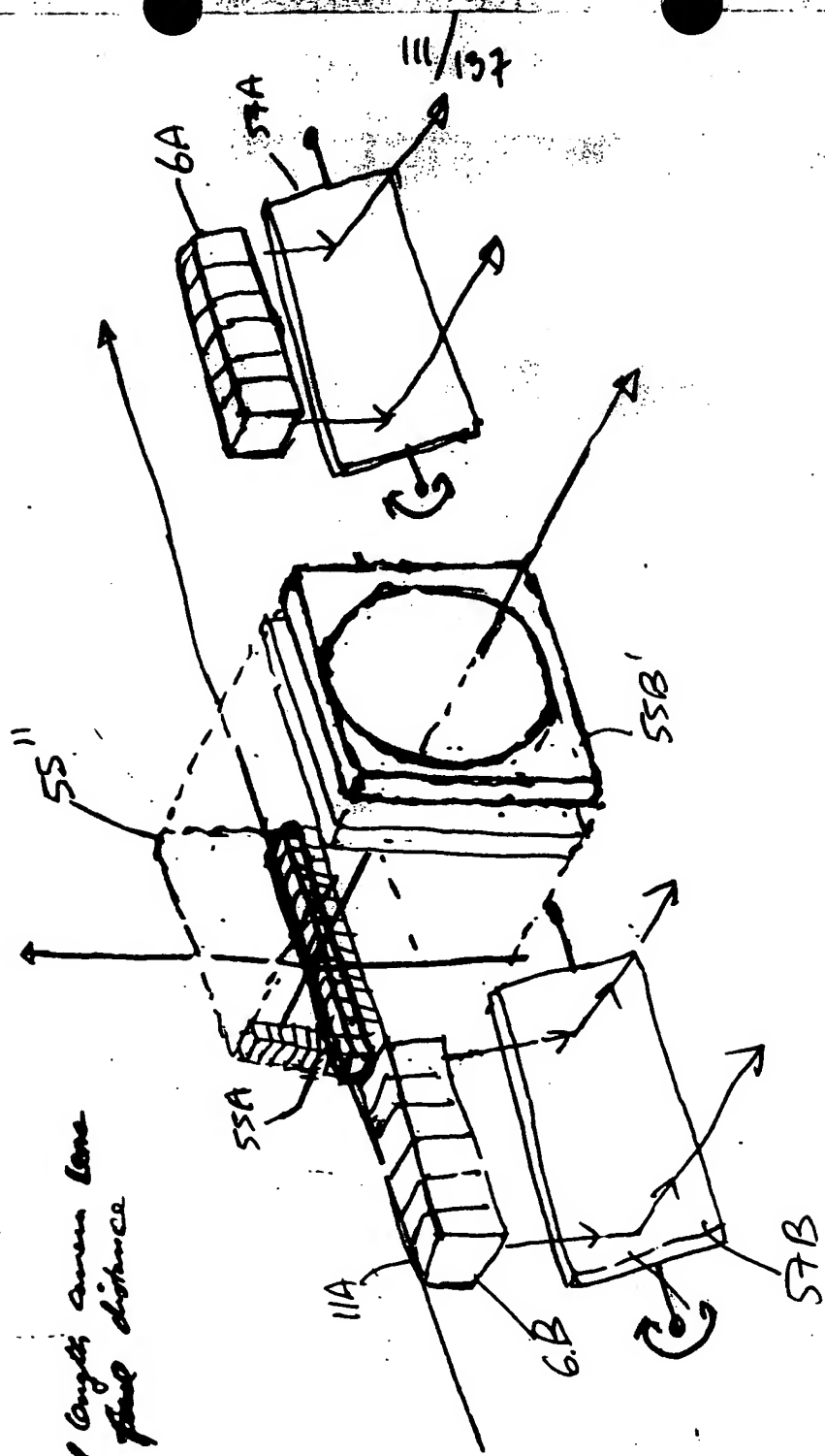


FIG. 6B1



- (1) Variable focal length camera lens
- (2) Variable fluid distance

80A

FIG. 6B2

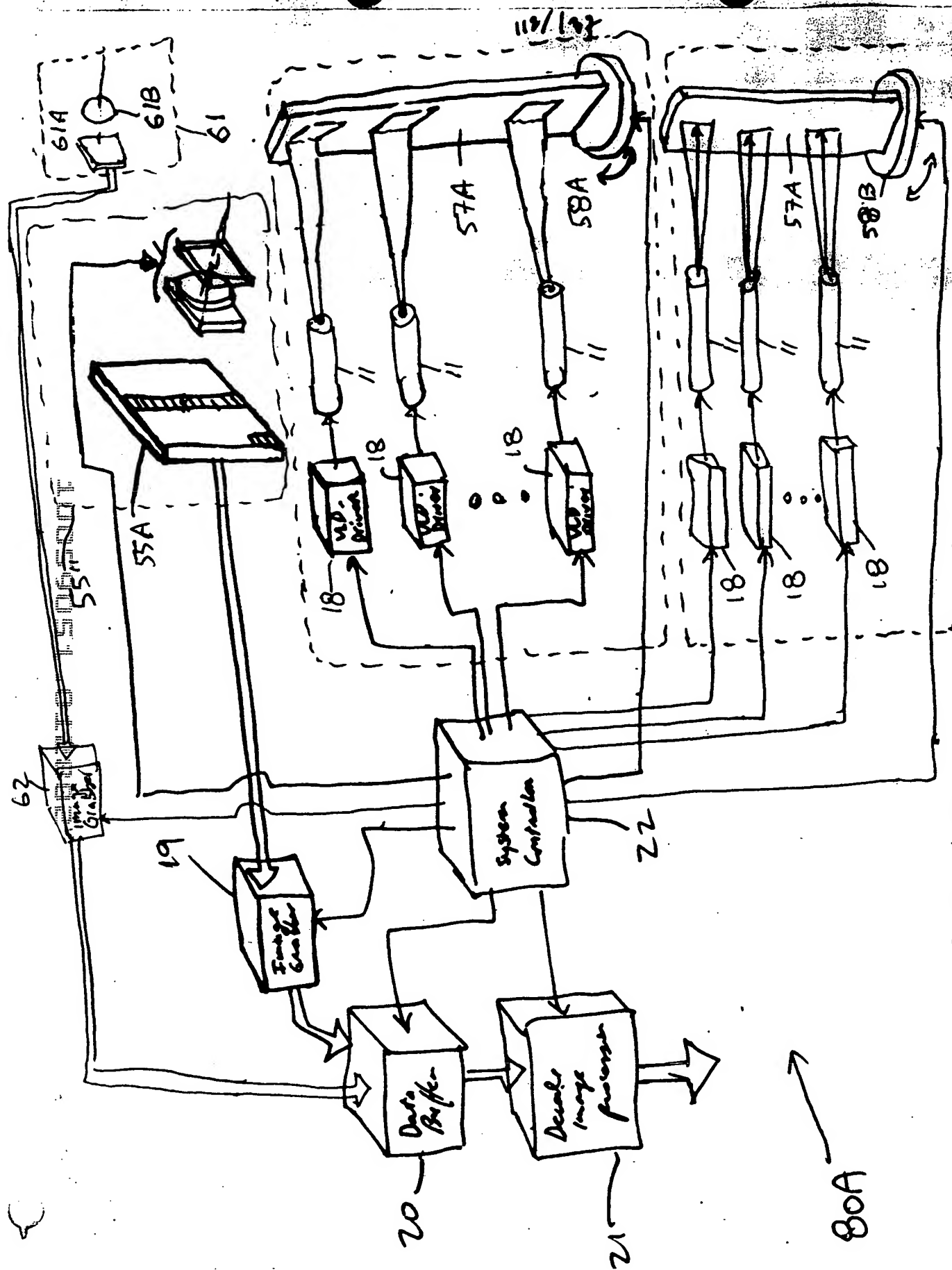


FIG. 6B3

80

208210" T506500T

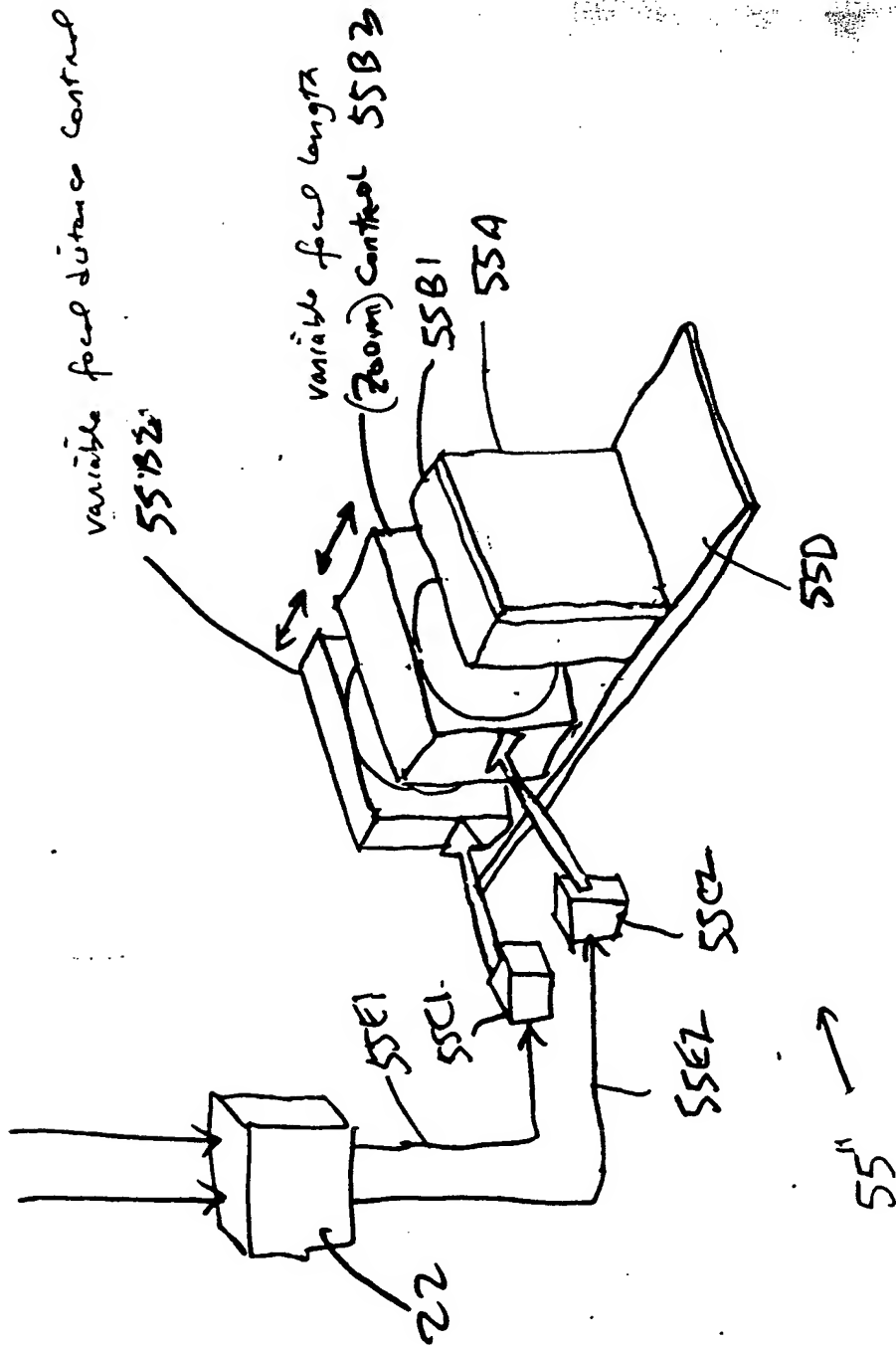


FIG. 6B4

119/107

114/137

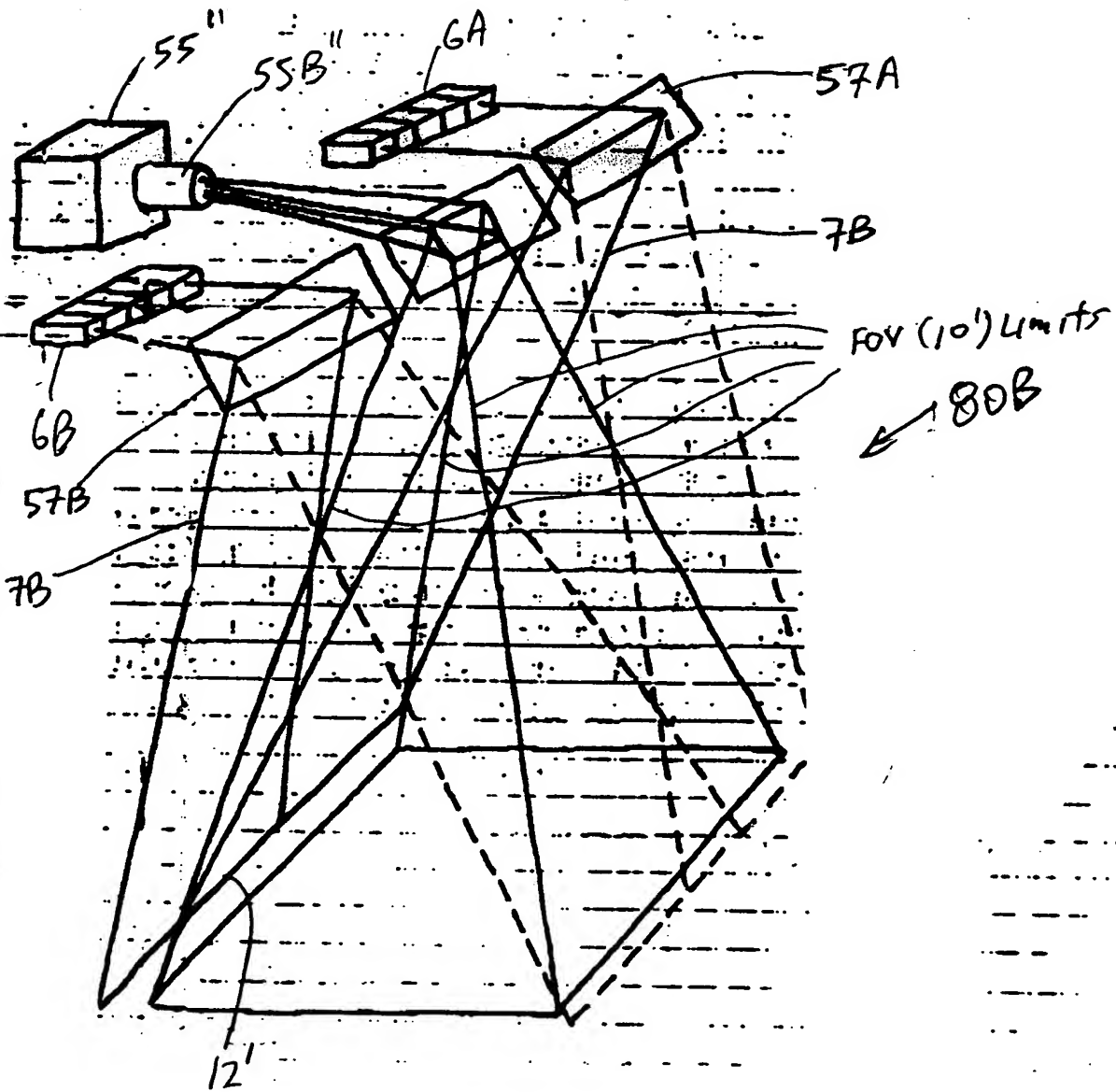


FIG. 6C1

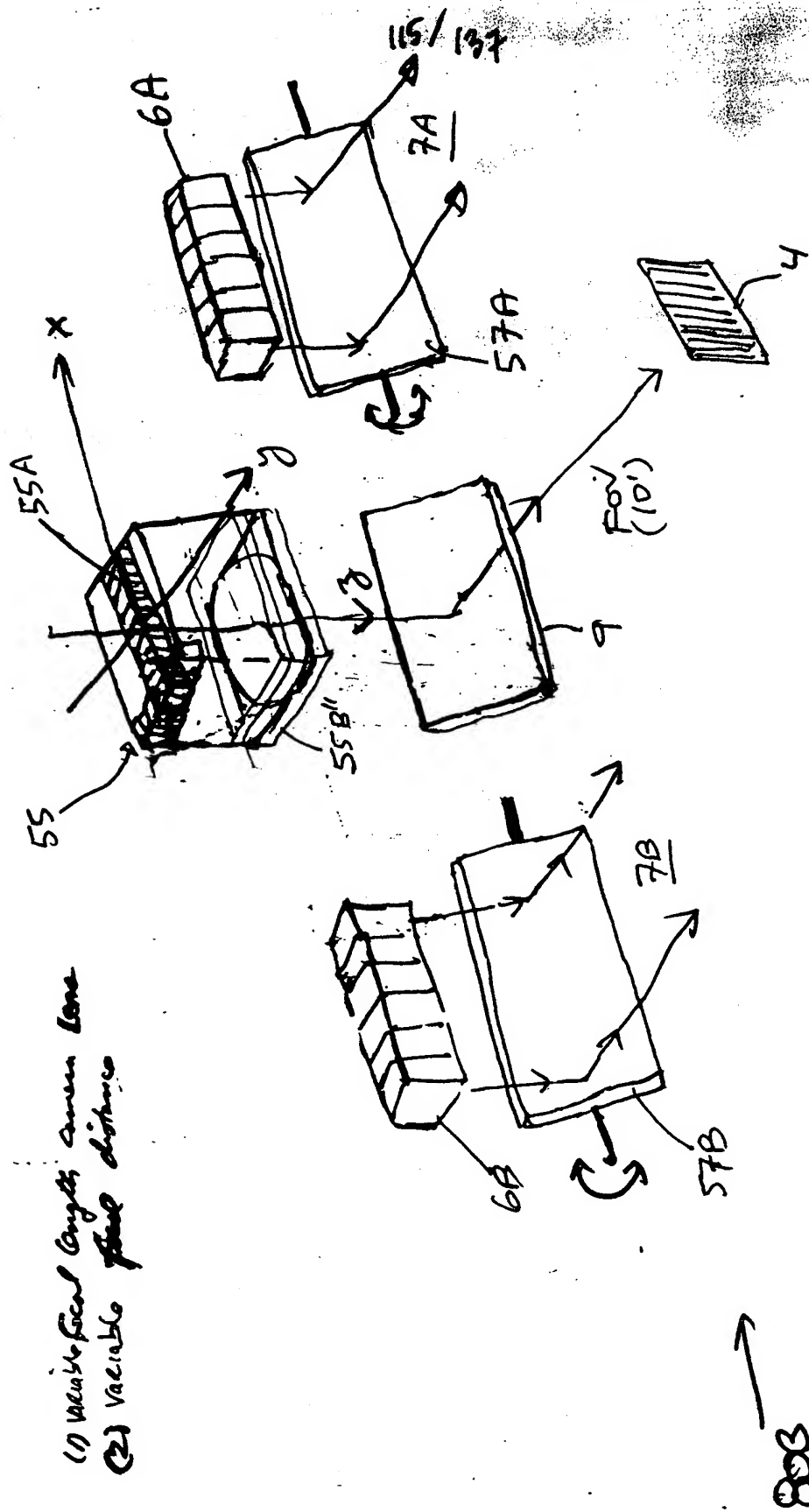
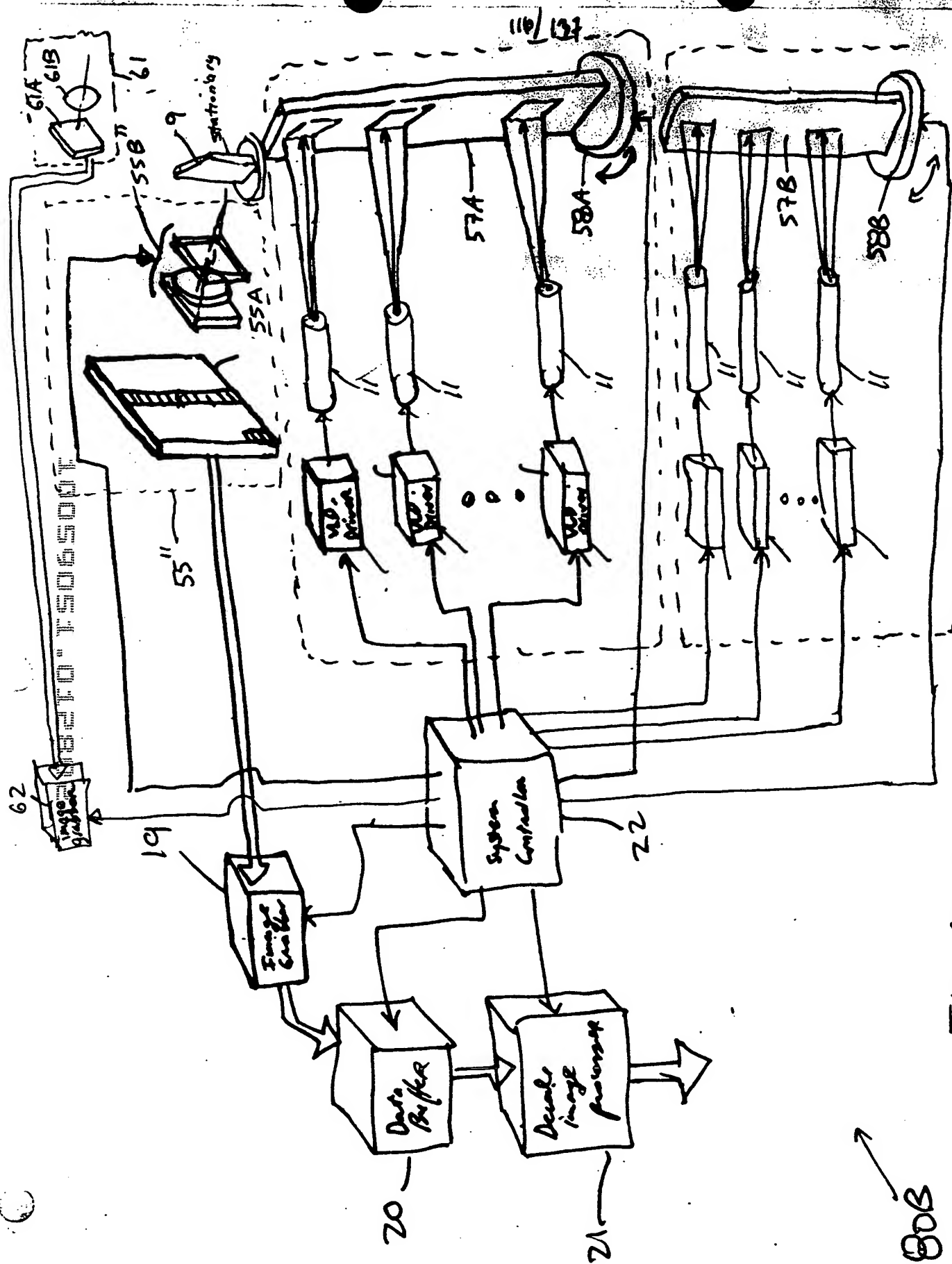


FIG. 6C2

- (1) Variable focal length lens
- (2) Variable fluid distance

803



00

208270 15065007

00

117/137

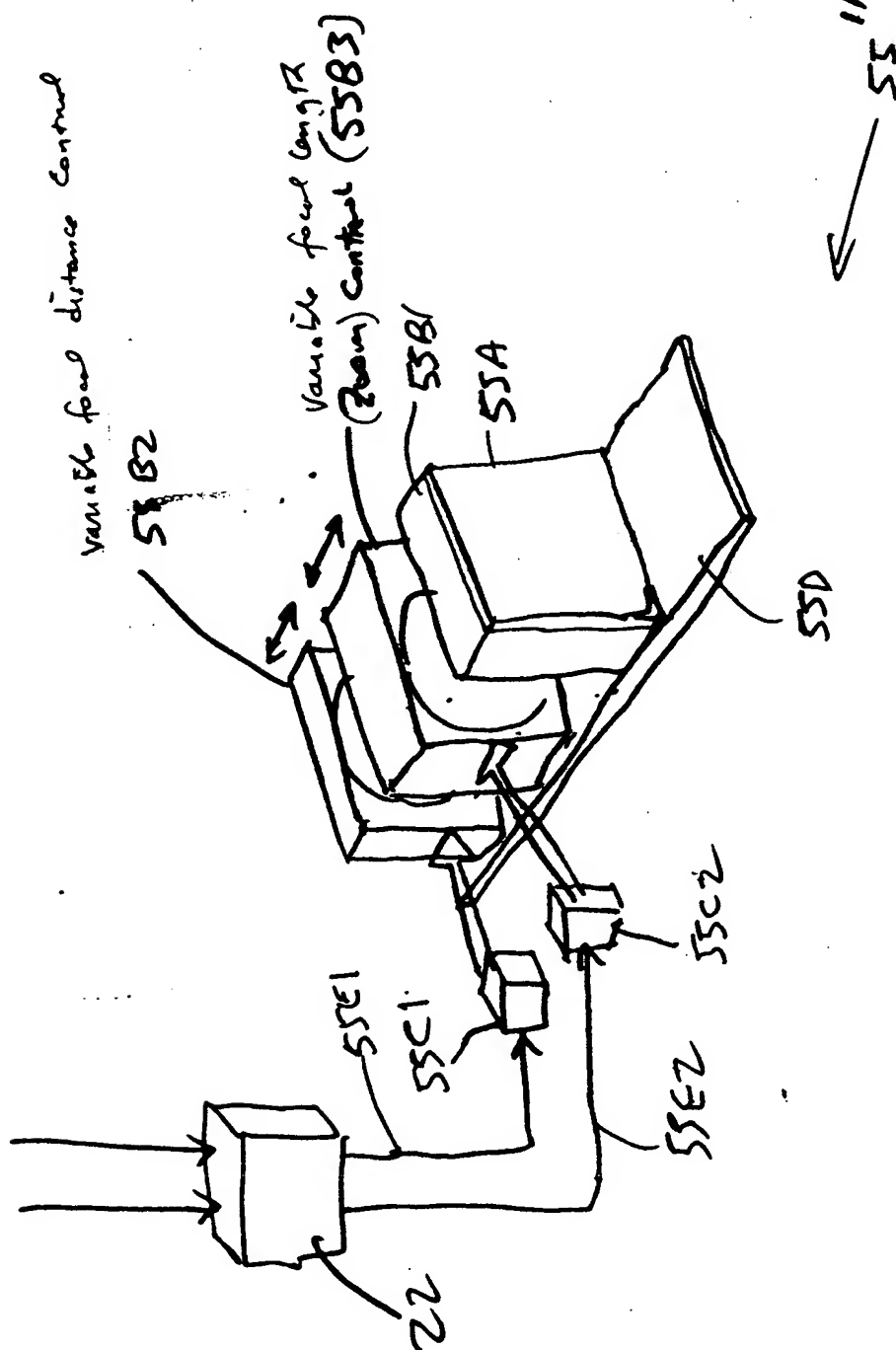


FIG. 6C4

118/137

2082FO" T506500T

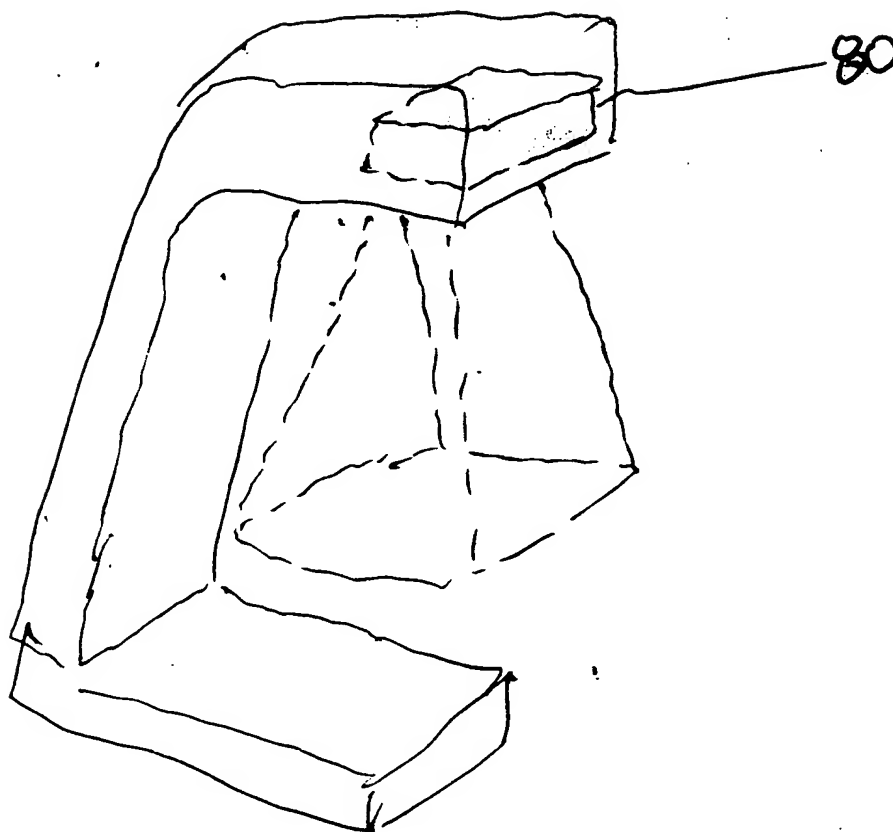
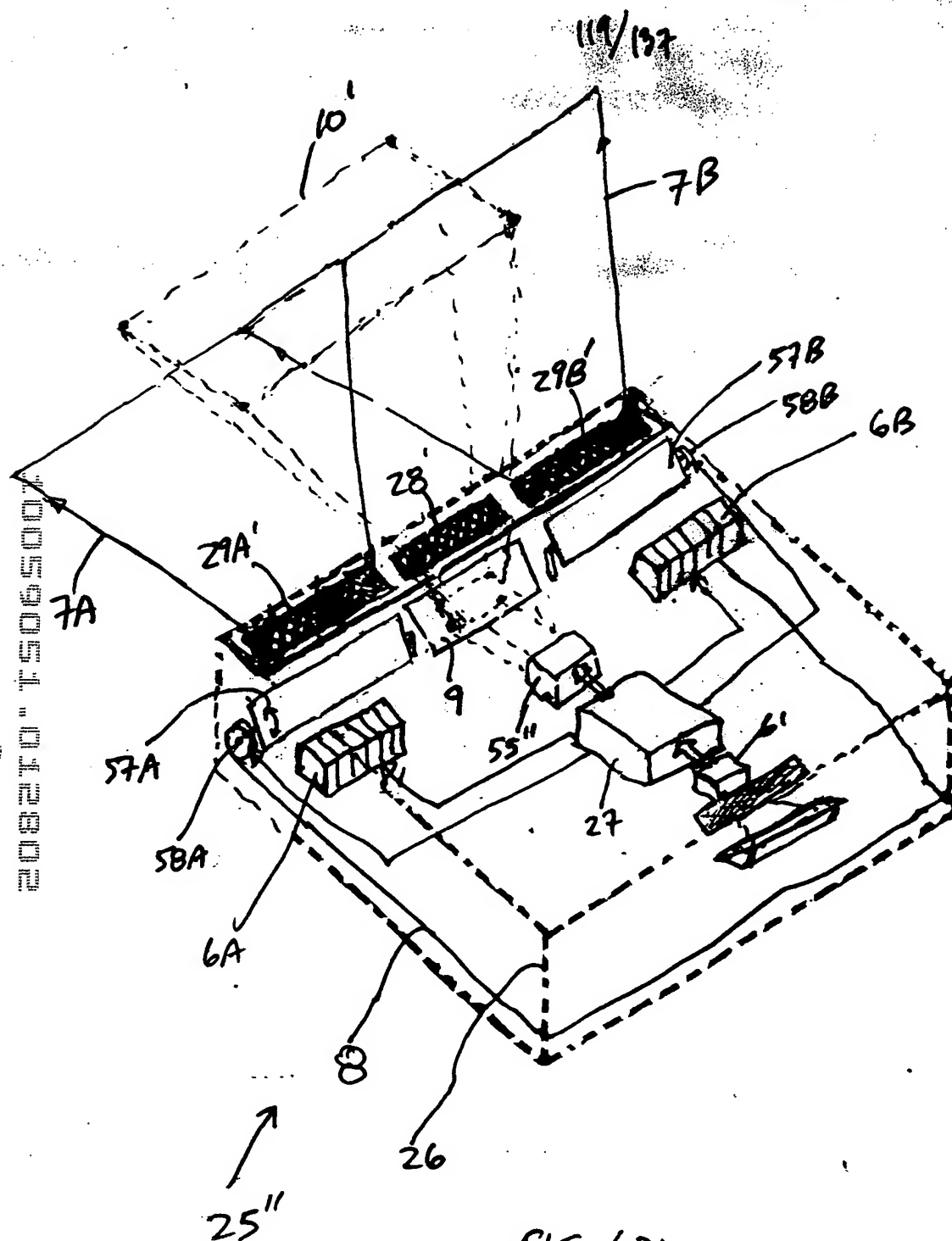


FIG. 6D

0



120/137

208210" T506500T

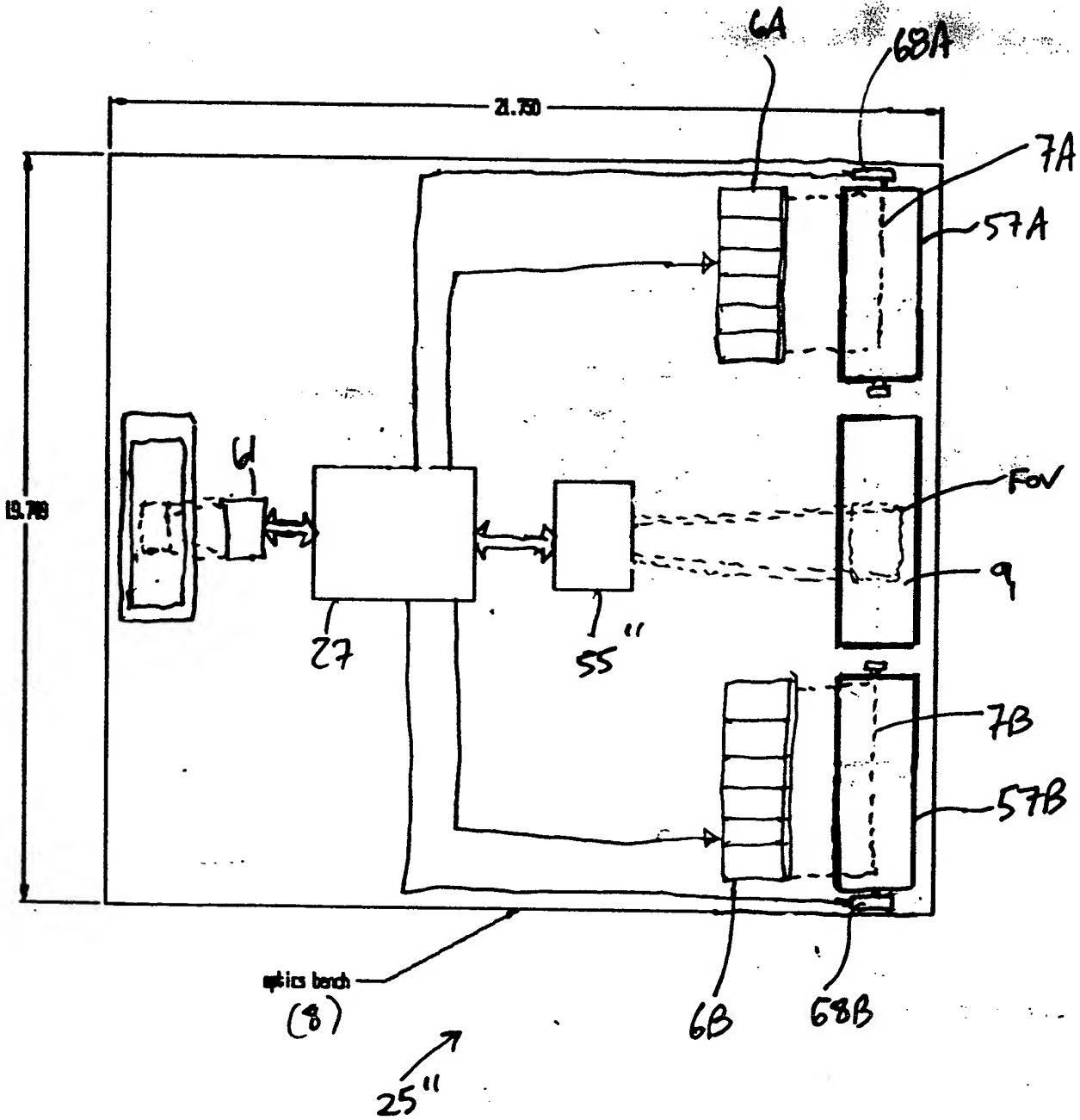
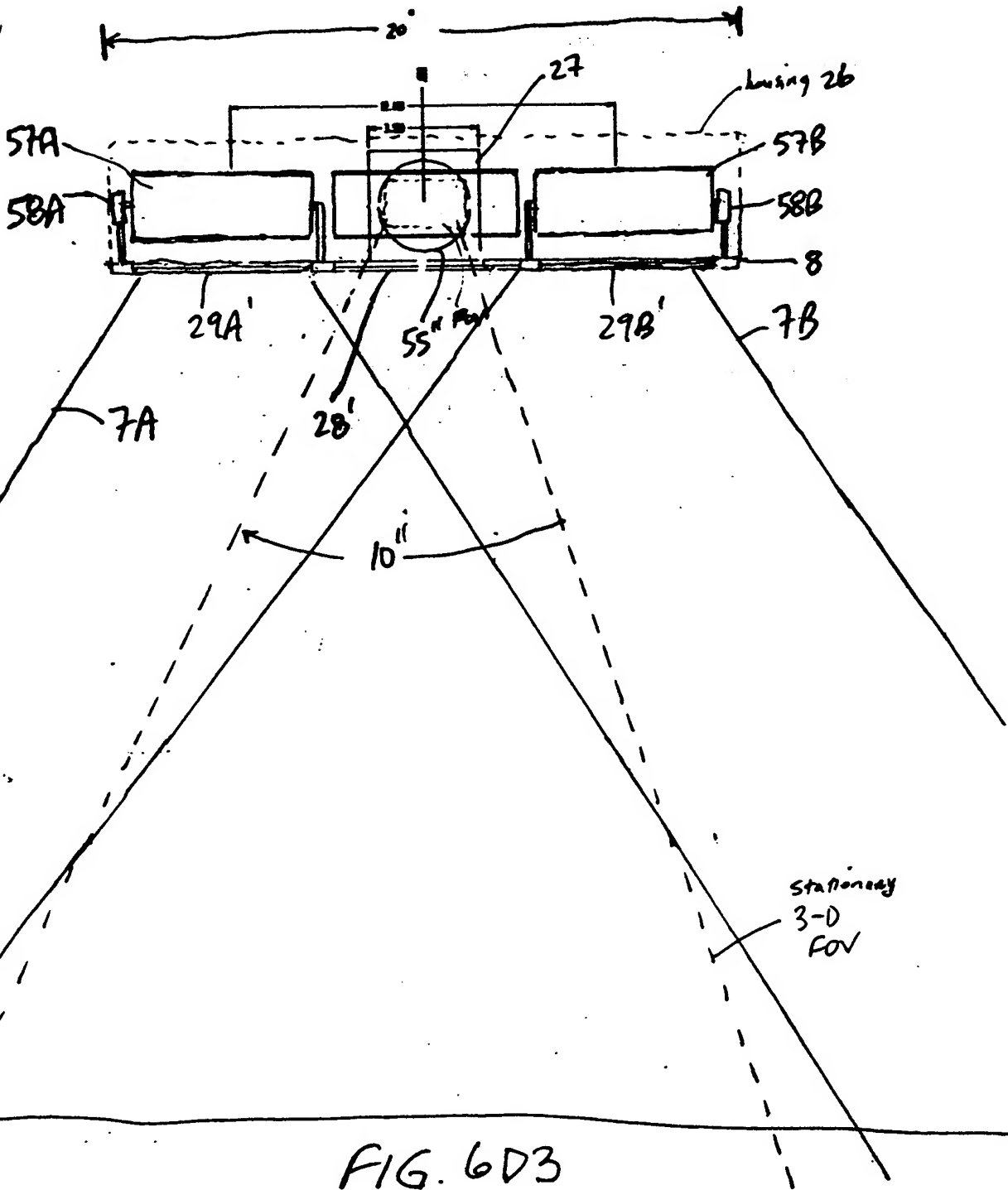


FIG. 6D2

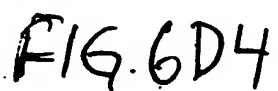
121/137



10059051.012802

FIG. 6D3

25"



123/137

variable FOV

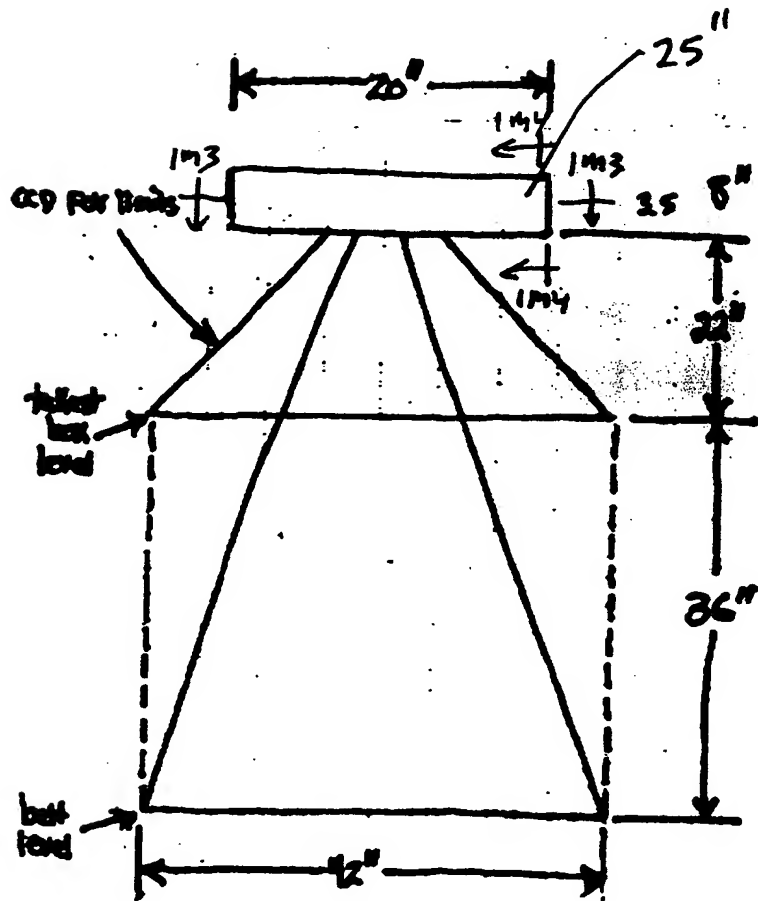
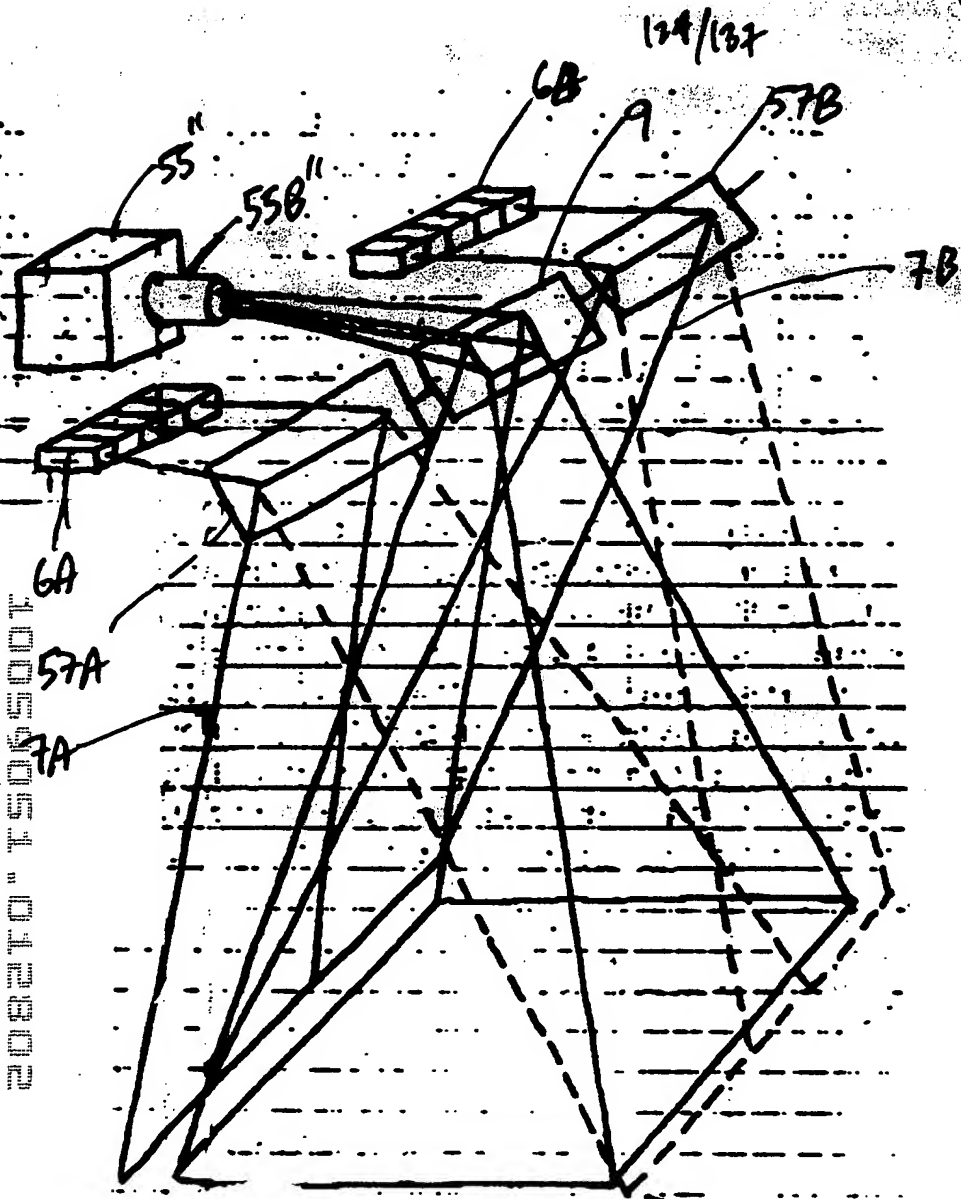


FIG. 6D5

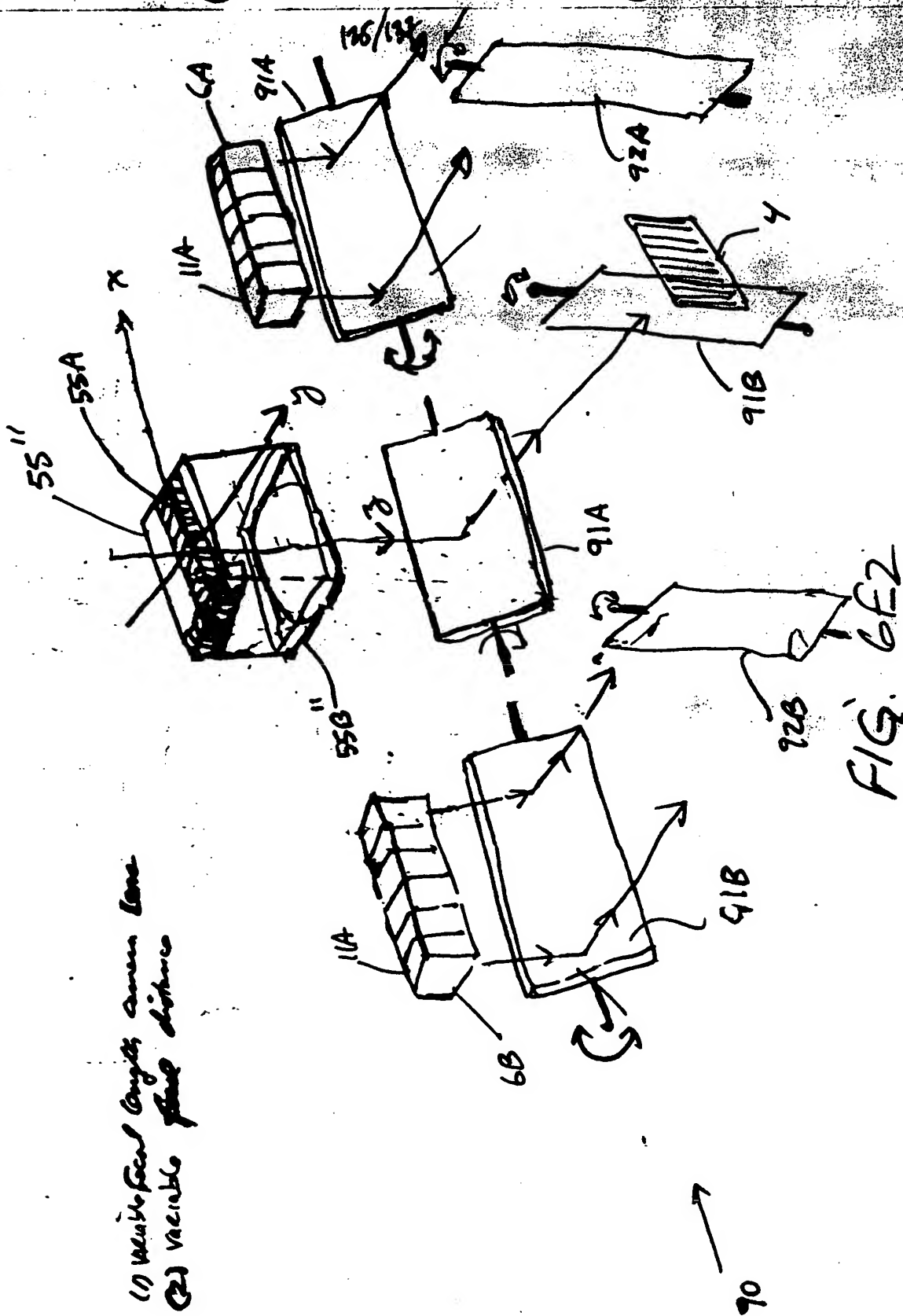


3D FOV is
movable in 2-dimensions

FIG 6E1

208270" T506500T

- (1) Variable focal length lens
(2) Variable fluid distance



126/137



127/137

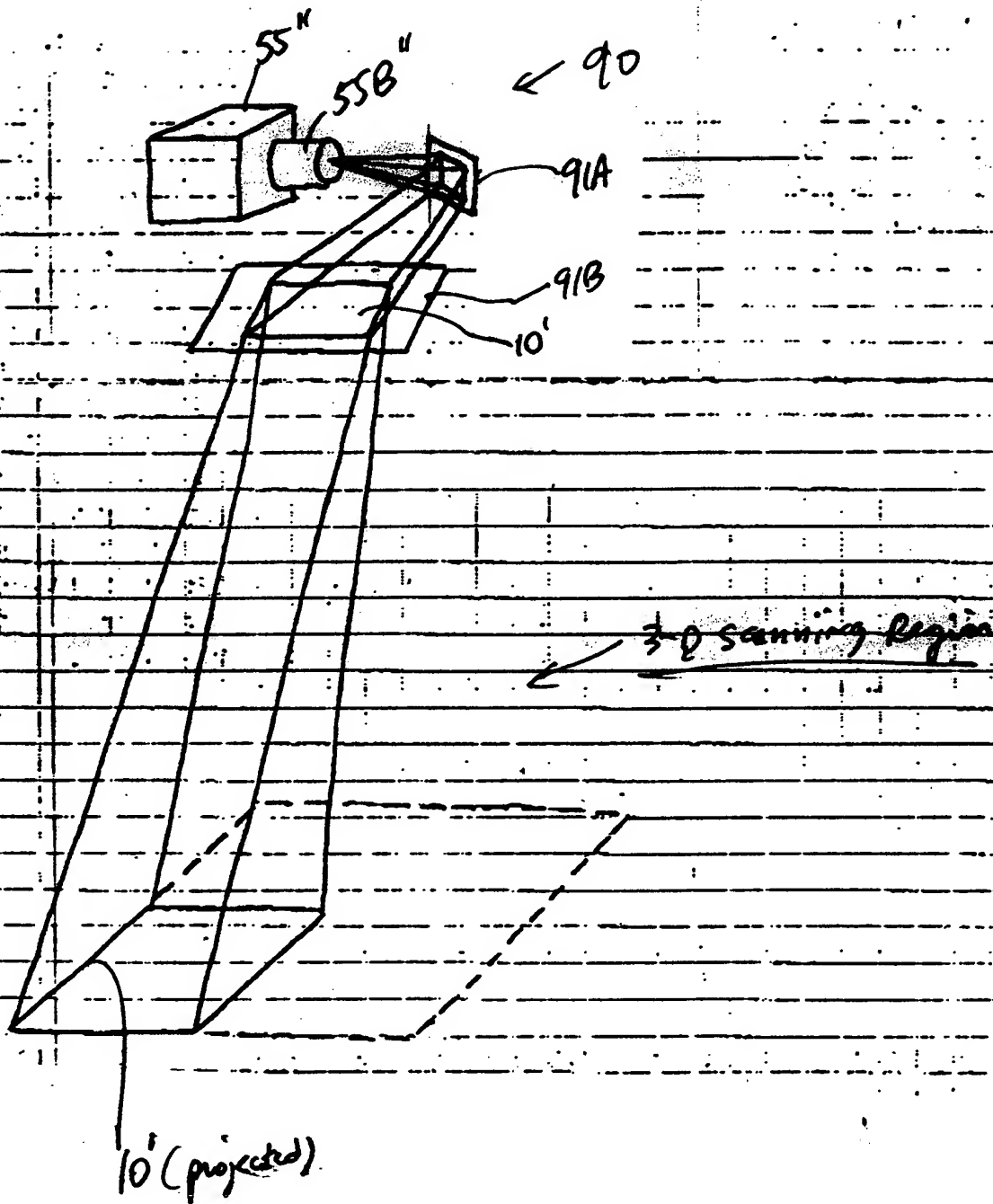
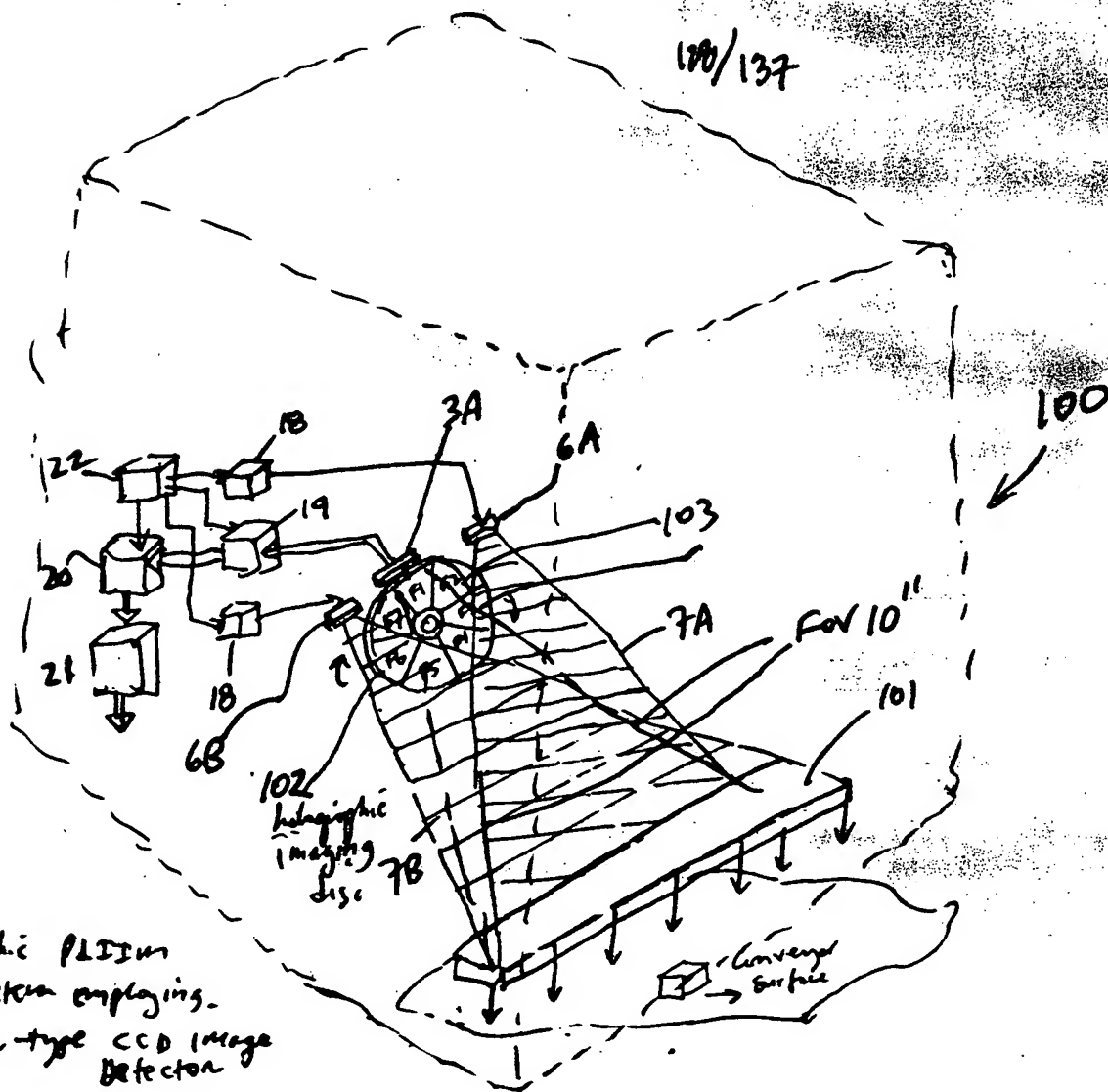


FIG. 6E4

208270 "TS06500T

100/137



Holographic PLIIm
System employing
Image-type CCD Image
Detector

FIG. 7A

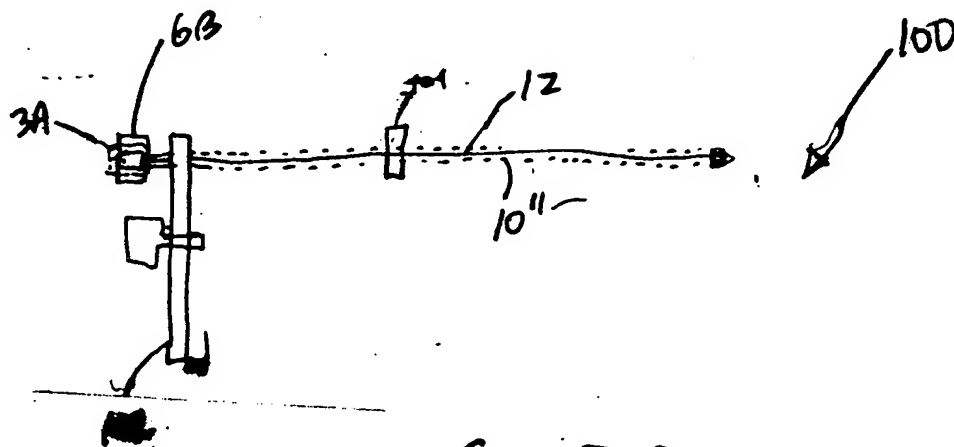


FIG. 7B

129/107

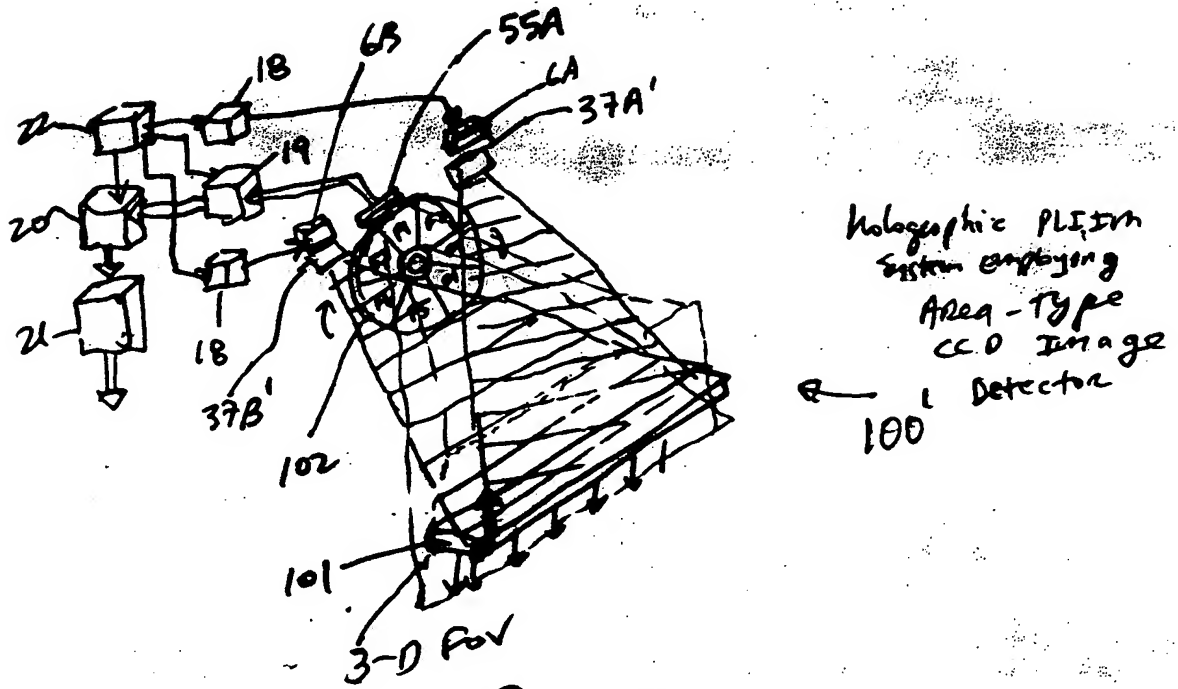


FIG. 8A

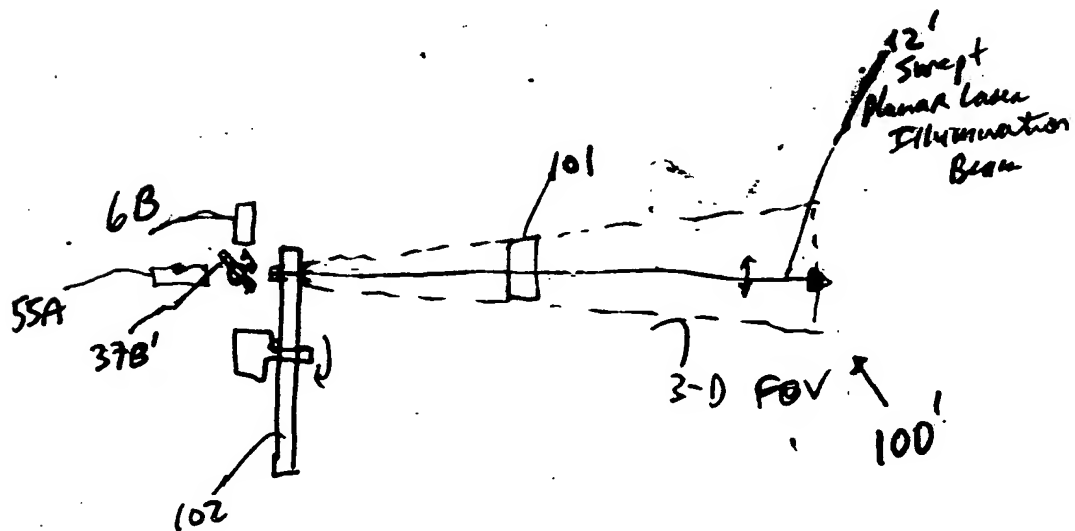


FIG. 8B

2082075065007

130/137



208210-15065001

124/137

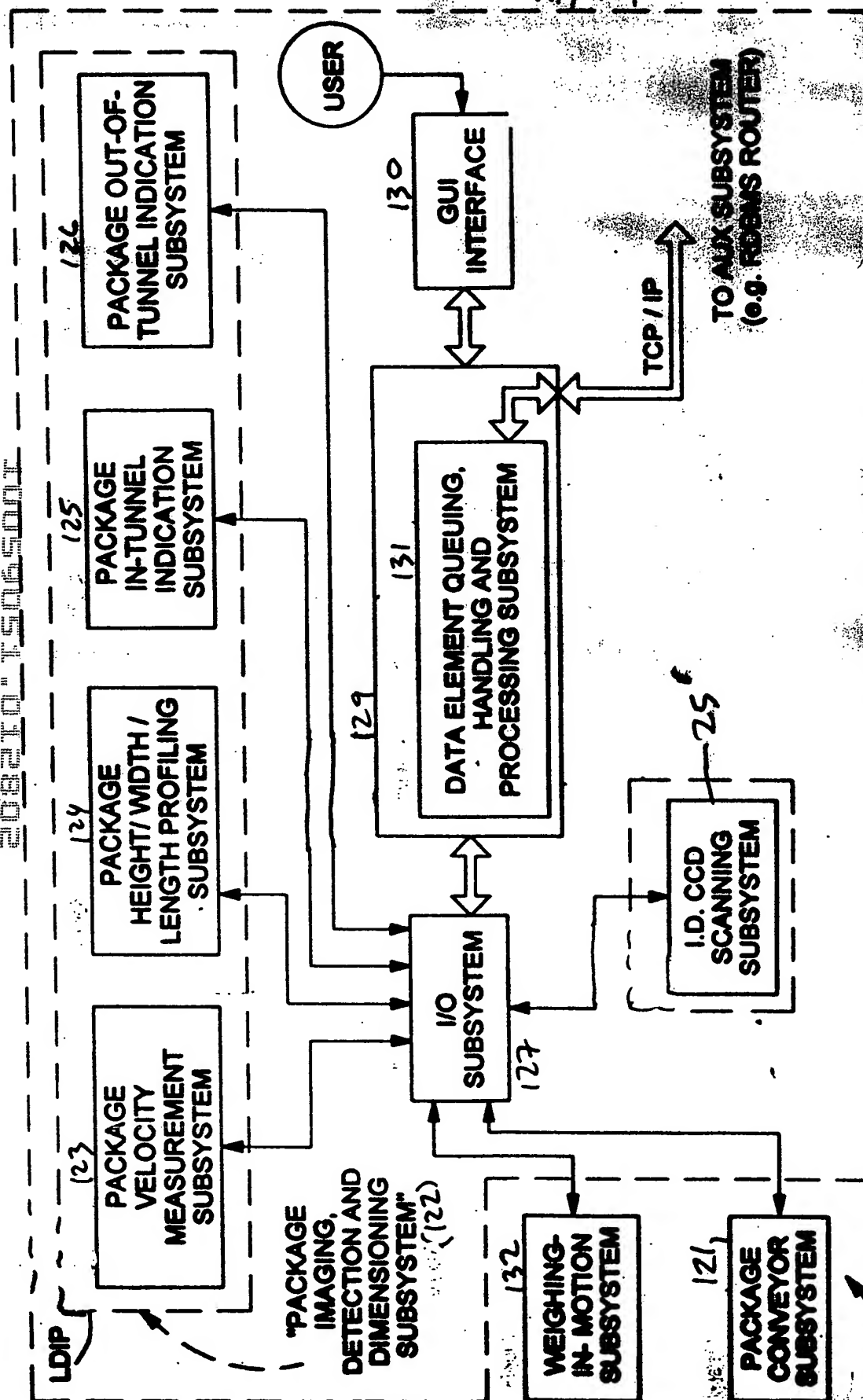


FIG. 10

120

2082FO" T506500F

132/137

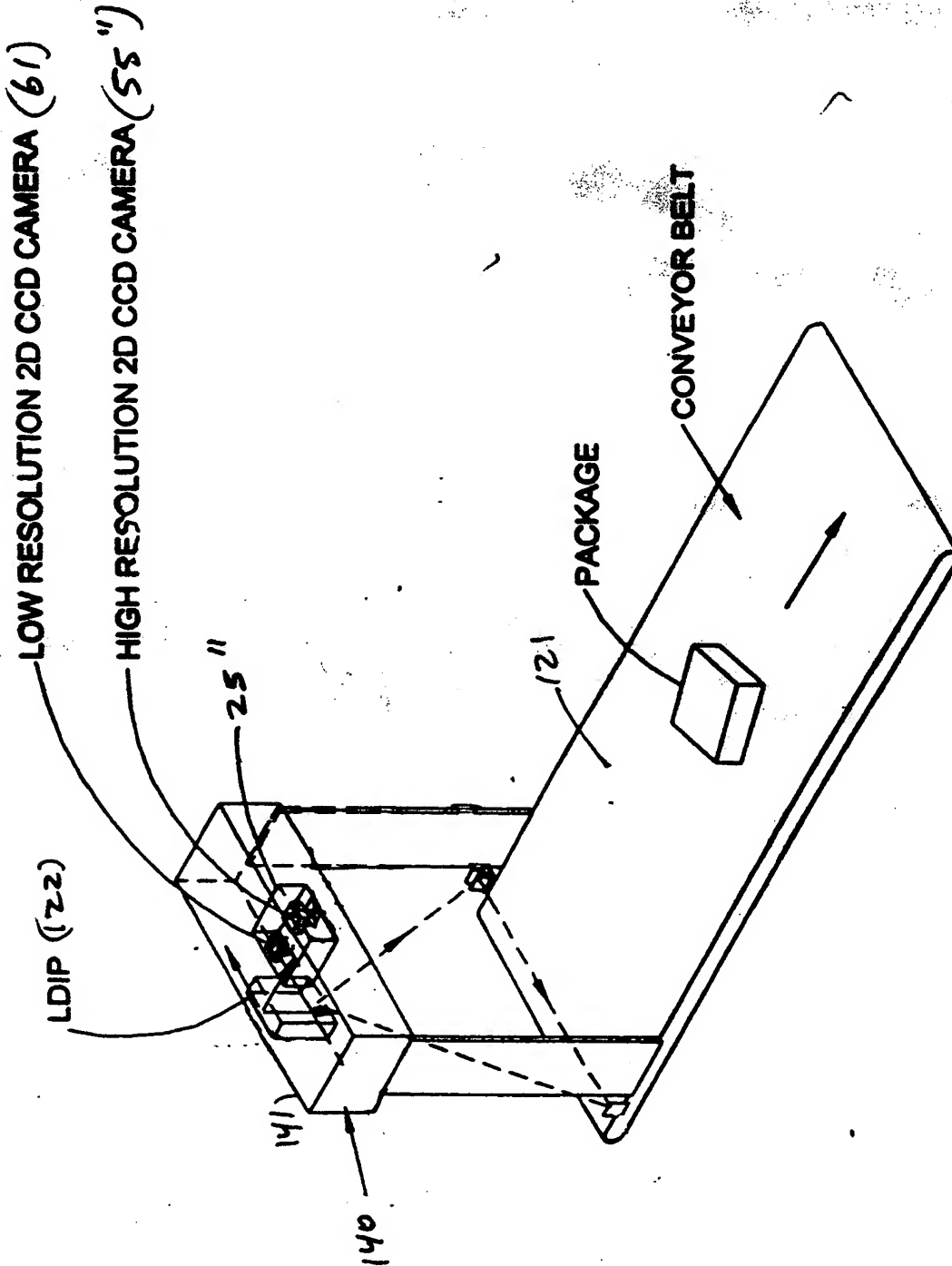


FIG 11

200210" F506500T

133/137

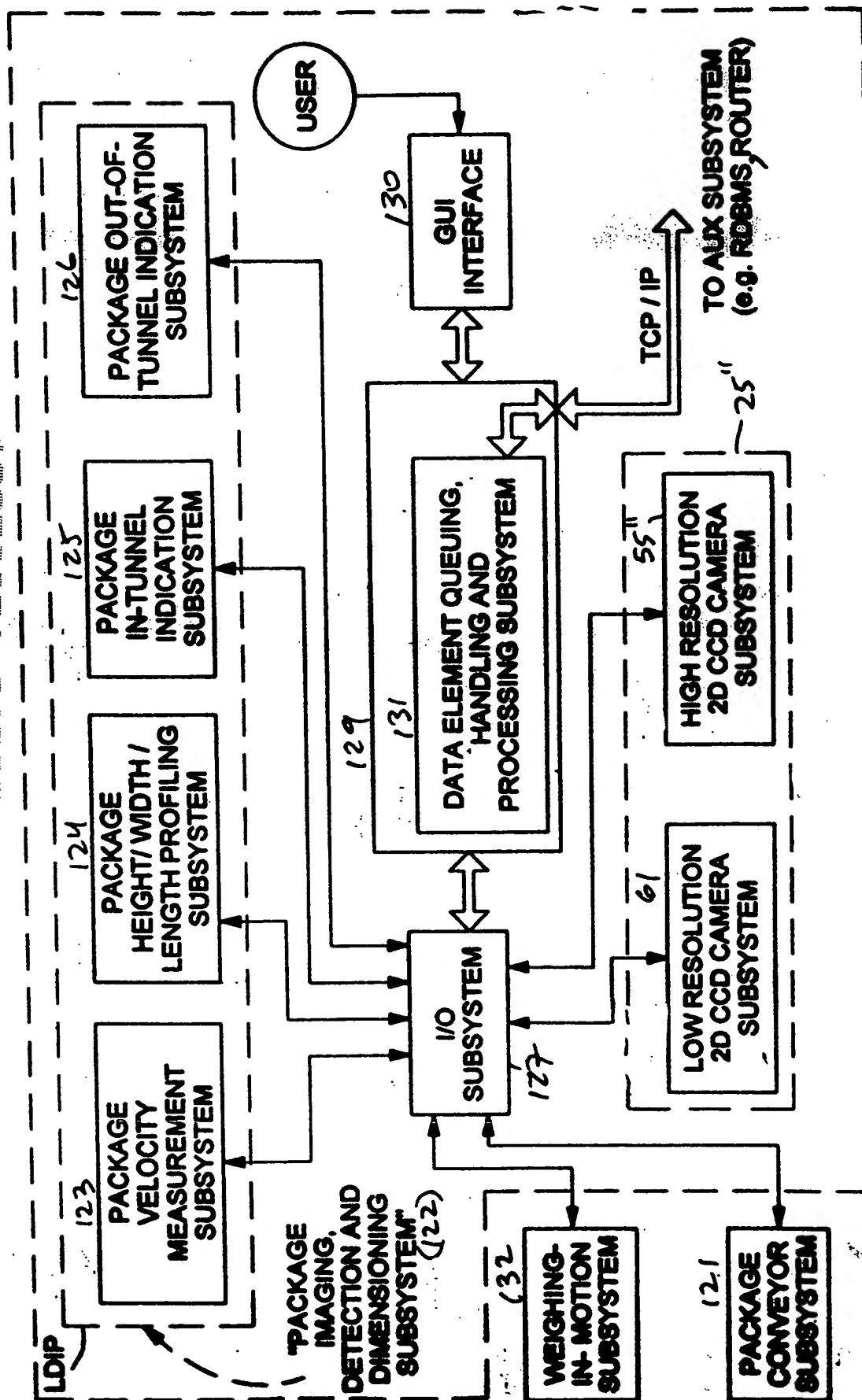


FIG. 12

140

20820 T506500T

134/134

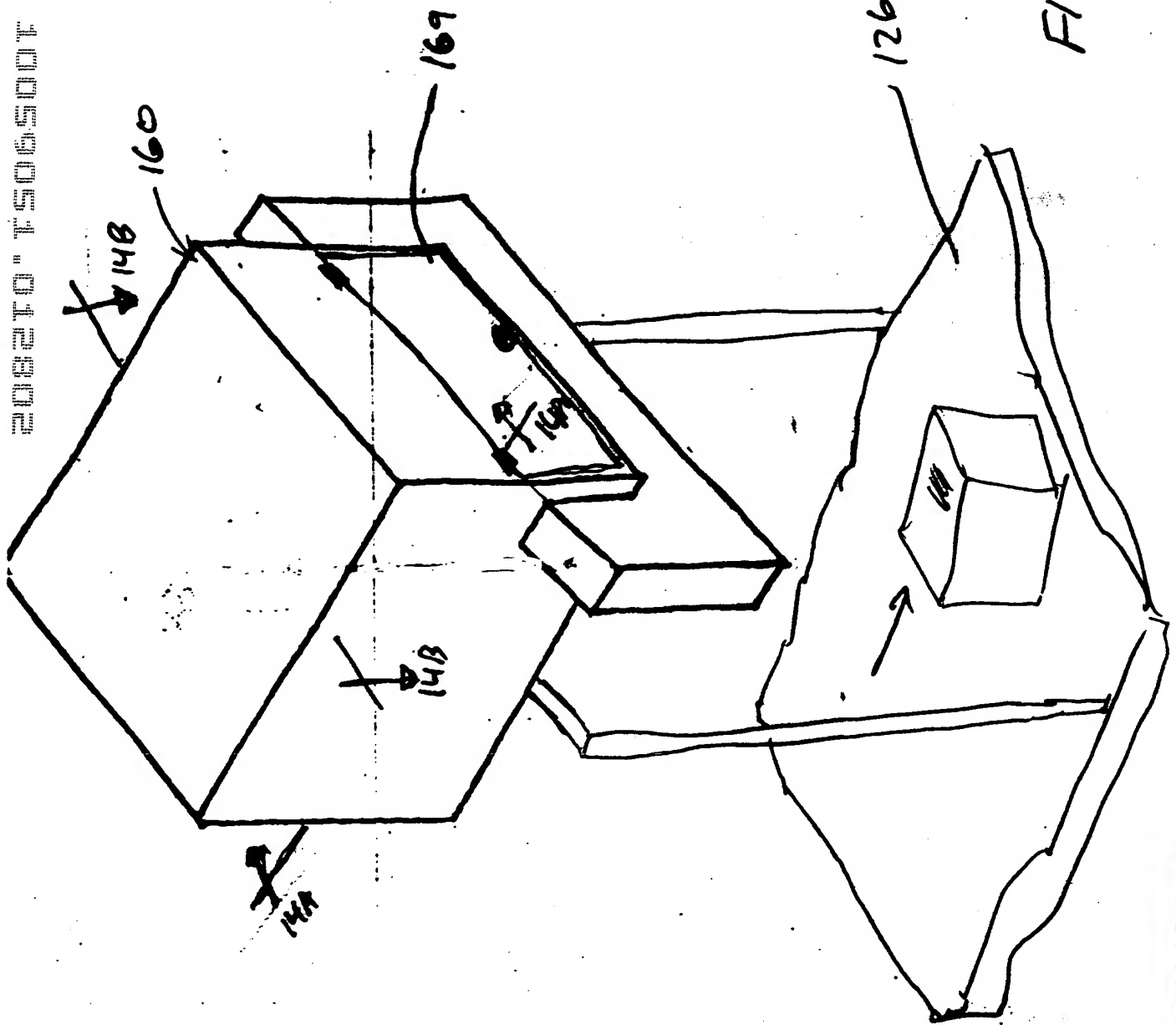
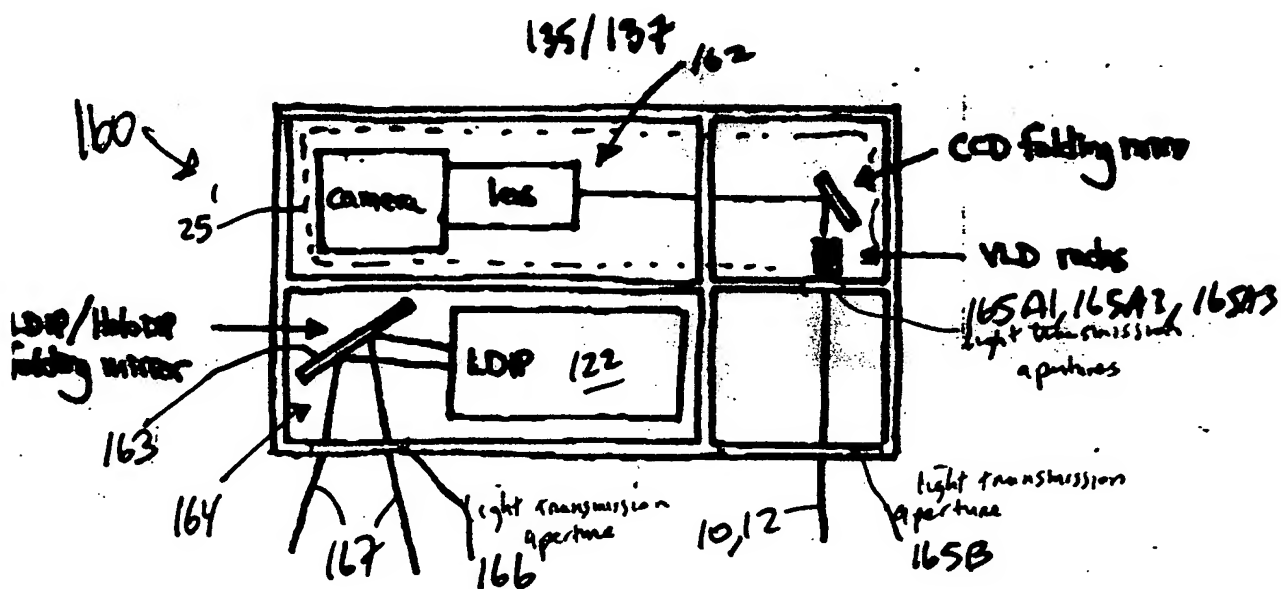


FIG. 13

208210" T506500T



160

FIG. 14A

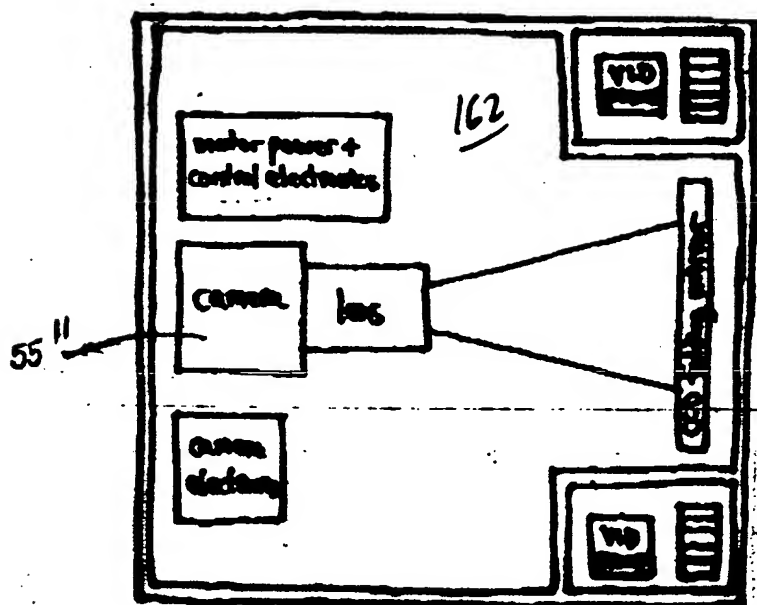


FIG. 14B

136/137

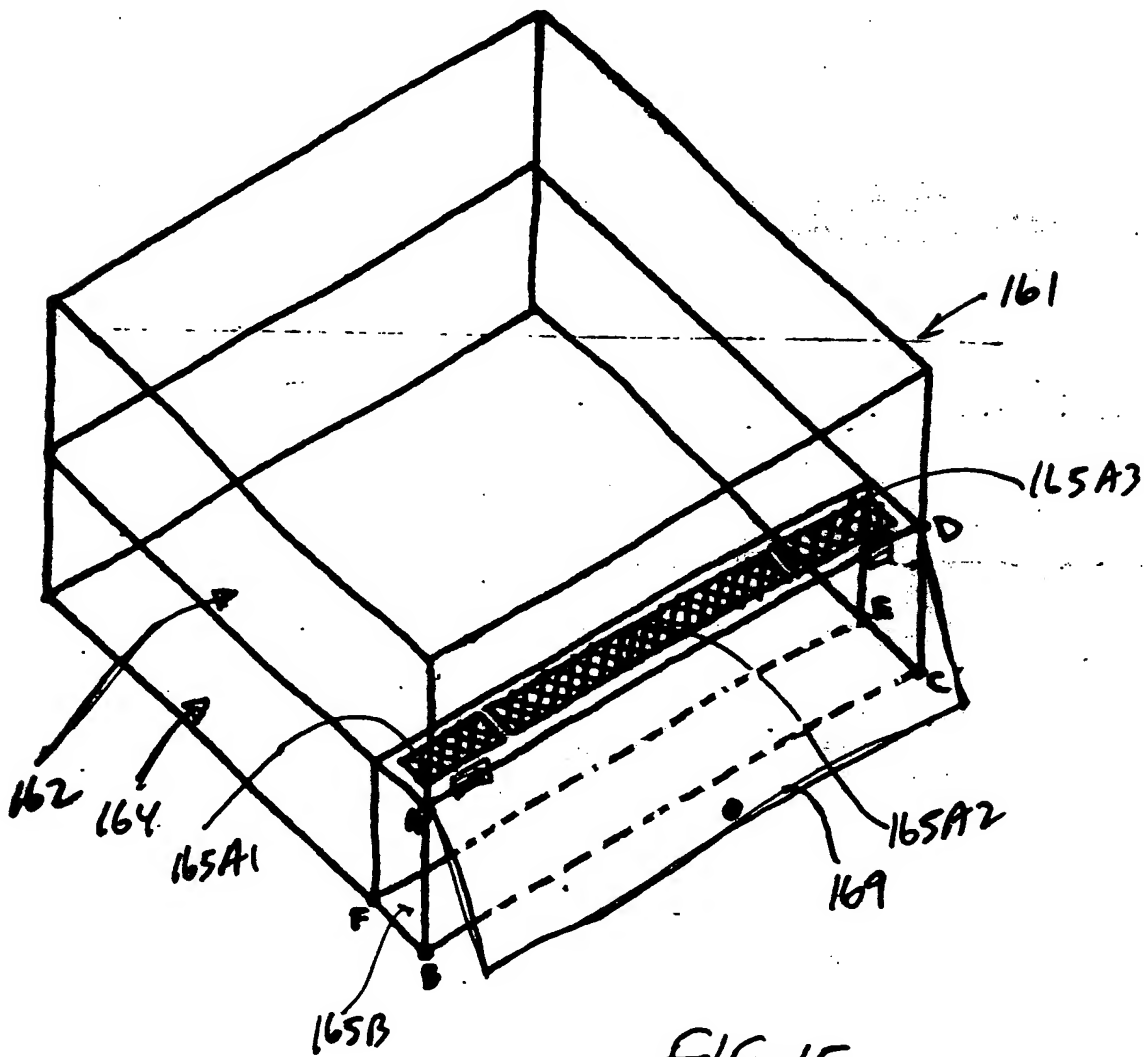


FIG. 15

20220707 10059051.0128002

[illegible]

Locality (2)

THE

三

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Barcod

mass

Video

+

tt-dt

FIG 18

10

137/137